

FILE NAME: Industrial Hygiene Foundation (IHF)

DATE: 1980 Sept

DOC#: IHF010

DOCUMENT DESCRIPTION: Articles of Incorporation Code of Regulation By-Laws
Articles of Amendment Records Retention Policy

IHF: ARTICLES OF INCORPORATION
CODE OF REGULATIONS
By-LAWS
ARTICLES OF AMENDMENT
RECORDS RETENTION POLICY

September, 1980

EXHIBIT

Brown 1 5/17/85

601

IHF RECORDS RETENTION POLICY

It shall be the policy of Industrial Health Foundation, Inc. to maintain records and retain files for the purpose of conducting its business and in a manner consistent with acceptable methods and in accordance with legal requirements.

This policy shall be implemented June 1, 1979 and remain effective until such time as changes are made in accordance with an annual review.

The types of records covered by this policy:

- IHF Corporate Operations Records
- Financial Records
- Personnel Records
- Employee Medical Records
- Records required by governmental regulations
- General Correspondence
- Correspondence relating to membership
- Technical Reports
- Research Raw Data
- Abstract Files
- Pamphlet Files
- Technical Journals

The retention period of these files is as follows:

IHF Corporate Operations Records -- at the discretion of the President
and Director of Office Services

Financial Records

Payroll

-- Active employees -- for length of
employment

-- Inactive employees -- for 10 years
-- for 10 years

Checks

-- retain for the duration of the
business

Ledgers and Journals

Supporting ledgers and data -- for 10 years

Personnel Records

Active employees

-- for duration of employment

Inactive employees

-- for 10 years after termination of
employment

(Maintain card index thereafter of former
personnel, with dates of employment)

Plaintiff's Ex. 1

9-5-80

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IHF Records Retention Policy

2.

Employee Medical Records

Active and Inactive Employees -- for 20 years

Records Required By Governmental Regulations

-- for period of time stipulated by the Government

General Correspondence

-- for 5 years

Correspondence Relating to Membership

Active Members -- for duration of membership

Inactive Members -- for 5 years after termination of membership

(Maintain card index thereafter of names of companies with dates of membership)

Technical Reports

-- for 10 years

(Maintain card index thereafter of surveys and/or research studies conducted)

Research Raw Data

-- for 5 years

Abstract Files

-- retain for the duration of the business (duplicate files are stored at the National Underground Storage, Boyers, PA)

Pamphlet Files

-- at the discretion of the Director of Information Services

Technical Journals

-- at the discretion of the Director of Information Services

This policy has been reviewed by legal counsel and was approved by the IHF Board of Trustees at the meeting held May 22, 1979.

May 30, 1979

IHF MEMBERSHIP INFORMATION
For LEGAL purposes

1964 - 1981

EXHIBIT

Brown 20/1/85

1938 No Record

1939 No Record

1940

REPORT OF MEMBERSHIP COMMITTEE

C. E. RALSTON,* Chairman

Eleven new members affiliated with Air Hygiene Foundation during the past year. The new members are:

Allegheny Pittsburgh Coal Company
American Mutual Liability Insurance Company
Calco Chemical Company
Colorado Mining Association
Industrial Tape Corporation
Liberty Mutual Insurance Company
Maryland Self-Insurers' Association
Powers X-ray Products, Inc.
Pullman Company
Rustless Iron and Steel Corporation
Toledo Scale Company

Meanwhile, eleven companies failed to renew their membership in January. With the business upturn—increased production creating increased need for health protection—a number of these companies are expected to return to the fold.

While the resignations balanced the additions, maintaining the membership at 225 companies, there was an increase of about \$400 a year in income. This is accounted for by the fact that most of the companies that resigned were small firms. Six of them were in the \$50 a year bracket, whereas most of the new members are larger companies in the higher bracket.

As Dr. Meller has announced, there has been a pronounced increase in the Foundation's survey service to its members during the year. This is a significant development. It links the benefits of Foundation membership more firmly with every-day plant operations. An industrial concern does not know its health hazards, or its lack of them, and have this information in a scientific, specific form, is like a company that does not know its costs. Industrial hygiene surveys are simply inventories. Like inventories they must be made periodically. The advantages of such a procedure are manifold.

In case of claims, you have a record showing what the health conditions actually were at the time of alleged injury. That is, you have this information if you have been making periodic checks over a period of time. The report you receive from the Foundation removes the "guess work" and speculation as to whether there was or wasn't a hazard at the time of the injury. Further, as Mr. Fletcher pointed out here a year ago, a survey report from an outside, independent agency carries more weight in Court or before a compensation commission than does a report prepared by your own company. In other words, an outside party can talk with greater weight about your plant than you can talk about yourself.

You all know man's capacity for spreading rumor, how tales grow and spread.

* Safety Director, Pittsburgh Plate Glass Company.

Proc. 54th Ann. Meeting, Nov. 12-13, 1940

1941

REPORT OF THE MEMBERSHIP COMMITTEE

C. E. RALSTON, Chairman

Thirteen companies have affiliated with the Foundation thus far this year. They are:

Corhart Refractories Company
General Motors Corporation
Hazel-Atlas Glass Company
International Business Machines Company
Merck & Company
Miamisburg Paper Company
Michigan Mutual Liability Company
Neville Company
Pittsburgh Clay Pot Company
Plaskon Company
Pyrene Manufacturing Company
Standard Lime and Stone Company
Toledo Edison Company

Two of the above are old members who dropped out during lean years but renewed their memberships during 1941. Meanwhile, four companies resigned during the year.

It will be impossible to make a full report on membership work until the end of the year. A campaign for new members is now in progress and we have reason to be optimistic about its results. Mr. Lewis H. Brown, President of Johns-Manville Corporation, which has held membership since the Foundation was started, has kindly agreed to assist us in the undertaking. The campaign has been necessarily held up by the fact that the Foundation has been in the process of changing its name. That change was advocated by the Membership Committee, as well as many other persons interested in the Foundation, at the meeting here one year ago. After circularizing the membership, and after the due processes of the law, the change from Air Hygiene Foundation to Industrial Hygiene Foundation became official only recently. In fact there are still some final legalities to be disposed of at a business session here today.

Increasing industrial activity tends to increase health hazards—and at a time when the nation sorely needs maximum manpower. Therefore, the work of the Foundation is more important now than ever before. It helps companies keep precautions apace with production, which is the only way it can offset the increases in sick absences and occupational disease which inevitably accompany an increase in the industrial tempo.

In endeavoring to fulfill this important function—keeping precautions apace with production—the Foundation is performing more and more field work for its member companies. During the past year our industrial hygienist, Mr. Mallette, covered approximately 25,000 miles in making plant surveys and "trouble shooting" where new processes were being installed, new materials introduced with questionable health effects. Survey work was performed in seven states.

In August, the staff hygienist flew 2,700 miles in three days covering

Safety Director, Pittsburgh Plate Glass Company.

*Proc. 6th Ann. Meeting
Nov. 12-13, 1941*

1942

New Members

During 1942, 11 more companies and associations affiliated with Industrial Hygiene Foundation in the organization's efforts to promote healthful working conditions, namely:

General Motors Corporation	Koppers Company
Flintkote Company	General Refractories Company
Owens-Corning Fiberglas Corp.	Domore Chair Company
Employers Mutual Liability Insurance Co.	Strathmore Paper Company
Dresser Manufacturing Company	Davison Chemical Company
Pacific Coast Association Pulp and Paper Manufacturers	

There are now 246 company and association members in the Foundation. These organizations, practically all of them directly engaged in war production, employ between 2 and 3 million war workers.

Plant Hygiene Surveys

The introduction of unfamiliar and new chemicals in manufacturing processes, some with little known toxic effects, is demanding even greater attention to plant hygiene measures. Meanwhile the dermatoses continue to be the most common of all occupational diseases.

The Foundation has conducted more plant hygiene surveys than in any previous year. These investigations, supervised by Frank R. Holden, check on the possible existence of health hazards in the workplaces. If hazards are detected, effectual measures are devised for their correction. Besides fostering healthful working conditions, the Foundation's plant surveys are proving to be an increasing factor in advancing harmonious labor relations, helping to eliminate working conditions which are often sources of discontent, such as nuisance dusts and fumes.

The Foundation collaborates actively with governmental agencies, both state and federal, which are interested in industrial health. One evidence of this cooperation is the subscription classification started early in the year whereby governmental agencies can secure all Foundation publications at less than cost. Since this arrangement was initiated 12 months ago, 4 federal agencies including Army and Navy, 22 states, and 5 cities have subscribed for Foundation literature. Meanwhile, 3 universities and 4 private specialists have also availed themselves of this material.

Research

The Foundation has continued to support medical and engineering research in industrial health with grants to The Saranac Laboratory, University of Pennsylvania and Harvard School of Public Health. Findings from these studies have been published. Then, too, an important study in toxicology is under way for a member company at Mellon Institute.

Publications

Two medical and two engineering bulletins have been issued to members during the year. These publications, giving the results of research are as follows:

1. Comparison of Stereoscopic Miniature Chest Films, Single Roentgenograms on Paper, and Single Roentgenograms on Large Films.

Proc. 74th Ann. Meeting, Nov. 10-11-1942

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

Abington Sanitary Manufacturing Co.
Abrasive Company
Abrasive Division, U. S. Rubber Company
Abrasive Products Company
Allegheny Lanthum Wheel Corporation
Allegheny Pittsburgh Coal Company
Alle-Chalmers Manufacturing Corp.
The Allison Company
Aluminum Company of America
American Abrasive Company
American Air Filter Company, Inc.
American Brake Shoe Company
American Cyanamid Company
American Energy Wheel Works
American Iron & Steel Institute
American Mining Congress
American Mutual Liability Insurance Co.
American Optical Company
American Radiator & Standard
Sanitary Corporation
American Refractories Institute
American Smelting & Refining Company
American Zinc Institute
Anaconda Zinc, Lead & Smelting Company
Anaconda Copper Mining Company
Ass'n of Casualty & Surety Executives
Automobile Manufacturers Association
Ball Brothers Company
Bartlett-Collins Company
Bay State Abrasive Products Company
Bethlehem Steel Company, Inc.
Bird & Son, Inc.
Bridgeport Safety Wheel Company
Bunker Hill & Sullivan Mining & Concentrating Company
The Carborundum Company
Central Silica Company
Chicago Wheel & Manufacturing Company
Climax Molybdenum Company
Robert F. Coleman, Inc.
The Colorado Mining Association
Consolidated Mining & Smelting Company of Canada, Ltd.
Corhart Refractories Company
Corning Glass Works
Cortland Grinding Wheel Corporation
Dakota Chemical Corporation
Duckworth Truck Band Company
Dyna-Flex, Inc.
A. V. Edwards & Son, Inc.
Detroit Star Grinding Wheel Company
DuPont Cellulose Company
Dunlop Chair Company, Inc.
Dow Chemical Company
R. F. Drakefield Company
Ducan Corporation
Eaton Filter Band Company
Eaton Safety, Inc.
Electro Refractories & Alloys Corporation
Employers Mutual Liability Insurance Co.
Ethyl Corporation
Eureka Flint & Spar Company, Inc.
Exelon Company
The Falk Corporation
Firestone Tire & Rubber Company
Firth Sterling Steel Company
The Flintkote Company
Foots Mineral Company
Foundry Supply Manufacturers Ass'n
Fraser-Simples, Inc.
Fuller Merriam Company
Galvin Manufacturing Company
Garco Products, Inc.
Gardner Machine Company
General Abrasive Company, Inc.

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

General Grinding Wheels Corporation
General Motors Corporation
General Refractories Company
Glass Container Association
Glenshaw Glass Company, Inc.
Grinding Wheel Manufacturers Ass'n
The Hall China Company
Hamilton Energy & Corundum Company
Hampton Grinding Wheel Company
Hawley Products Company
Insel-Alins Glass Company
Hecla Mining Company
Hercules Powder Company
John W. Higman Company
O. Hommel Company
Mauricio Hochschild S. A. M. L.
Industrial Silica Corporation
Industrial Tapp Corporation
International Business Machines Corp.
International Nickel Company, Inc.
Jack & Helms, Inc.
Jackson Mills Emery Company
Jamestown Coal & Coke Company
John-Manville Corporation
Jones & Laughlin Steel Corporation
Kyalone Emery Mills
Kimble Glass Company
The Kirk & Blum Manufacturing Company
Koppers Company
Homer Laughlin China Company
Lava Crucible Company of Pittsburgh
E. J. Lavino & Company
Lead Industries Association
Liberty Mutual Insurance Company
Mackintosh-Humphill Company
Macklin Company
Magnia Copper Company
Marshall Self-Insurers' Association
Merck & Company, Inc.
Mexico Refractories Company
The Miami Paper Company
Michigan Mutual Liability Company
Mid-West Abrasive Company
Mine Safety Appliances Company
Monument Chemical Company of America
Mott Chemical Company
J. R. McCordick Company
National Carbon Lead Stone Association, Inc.
National Grinding Wheel Company
National Industrial Lead Association
National Lead Company
National Sling Association
The Neville Company
New Jersey Zinc Company
North American Refractories Company
Northern Company
Norton Pike Company
Ontario Mining Association
Oriental Emery Company
Ottawa Silica Company
Owens-Corning Fiberglas Corporation
Owens-Illinois Glass Company
Pacific Coast Association of Pulp & Paper Manufacturers
Paninular Grinding Wheel Company
Penn-Billion Company
Pennsylvania Glass Sand Corporation
Phelps Dodge Corporation
Pittsburgh Plate Glass Company
Pittsburgh Plate Glass Company
Pittsburgh Division, Libbey-Owens-Ford Co.
Portland Cement Association
Powder X-Ray Products, Inc.

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

Precision Grinding Wheel Company, Inc.
Pyralian Company
Pyralian-Standard Car Manufacturing Co.
Pyralian Manufacturing Company
Pyralian-Manhattan, Inc.
Pyralian Mining Corporation
R. H. Robertson Company
Safety First Supply Company
Safety Grinding Wheel & Machine Co.
Claude H. Schneible Company
Joseph L. Seagram & Sons, Inc.
Shawnee Furnace Company
Shawnee Warden White Company
Shawnee Process Company
Smith West Hog Company
K. Joseph Lead Company
Standard Abrasive Wheel Company
Standard Lime & Stone Company
Sterling Grinding Wheel Company
Stuckert Fire Brick Company
The Sun Rubber Company
Texas Gulf Sulphur Company
Titan Abrasives Company
Toledo Edison Company
Toledo Scale Company
Trenon Pottery Company
Tri-State Zinc & Lead Ore Producers Association
Union Carbide & Carbon Corporation
United Engineering & Foundry Company
United States Pottery Association
United States Smelting Refining & Mining Company
United States Steel Corporation of Del.
Universal Sanitary Manufacturing Co.
Utah Copper Company
Utilities Research Commission
Valley Mould & Iron Corporation
Vanadium Corporation of America
Vanguard Crucible Company
Vitrified Wheel Company
Waltham Grinding Wheel Company
Washington Mill Abrasive Company
Wedon Silica Company
The F. K. Wellman Company
Wheel Company
Western Pyropliation Corporation
Westfield Grinding Wheel Company
Westinghouse Electric & Mfg. Company
Whitehead Brothers Company
Wilson Products, Inc.
Wilcoxon Abrasive Company
Wolf's New Process Abrasive Wheel, Inc.
Youngstown Sheet & Tube Company

SUBSCRIBERS

FEDERAL GOVERNMENT

Air Service Command, Fairfield, Ohio.
Bureau of Medicine & Surgery, Navy Dept.
Chief of Ordnance, Chicago, Ill.
Federal Hygiene Service, Oklahoma City, Okla.
Federal Safety Division, Huntsville, Ala.
Industrial Hygiene Laboratory, Baltimore, Md.
Medical Supply Officer, Fort Mason, Cal.
Navy Yard, Charleston, S. C.
Roosevelt Laboratories Div., Navy Dept.
Tennessee Valley Authority
U. S. Public Health Service

CITIES

Department of Health, Baltimore, Md.
Department of Health, Detroit, Mich.
Department of Health, St. Louis, Mo.

OTHERS

Dr. Elston L. Belknap
Dr. Charles Kemm Good
Dr. J. W. G. Hannan
Dr. E. R. Hayhurst
Dr. K. F. Henderson
Mr. J. H. Holden
Dr. Hester & Kuhn
Dr. Geo. E. Morris
Dr. E. D. McFinnell
Dr. C. O. Reppington
Johns Hopkins University
Universities of Colorado
Medical Administration Service

FOREIGN

Department of Pensions & Health, Ottawa, Canada
Department of Health & Public Welfare, Winnipeg, Canada
British Ministry of Supply Mission
International Labor Office, Montreal
Medical Research Council, London
Ministere Sante & B. E. Social Hyg., Quebec, Canada
Netherlands Government Commission for Scientific Documentation

STATES

Department of Health, California
Department of Health, Connecticut
Department of Health, Georgia
Department of Health, Idaho
Department of Health, Illinois
Department of Health, Indiana
Department of Health, Iowa
Department of Health, Kansas
Department of Health, Louisiana
Department of Health, Maryland
Department of Health, Massachusetts
Department of Health, Montana
Department of Labor, New York
Department of Health, Ohio
Department of Health, Oklahoma
Department of Labor & Industry, Pennsylvania
Department of Health, Tennessee
Department of Health, Texas
Department of Health, Utah
Department of Health, Vermont
Department of Health, Virginia
Department of Health, West Virginia
Department of Health, Wisconsin
Industrial Commission of Ohio

Multiple Membership

Multiple Membership

Proc. 7th Ann Meeting, Nov. 10-11, 1943

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

General Abrasive Company, Inc.

General Grinding Wheel Corporation
General Motors Corporation
General Refractories Company
Glass Container Association
Glasshouse Glass Company, Inc.
A. P. Green for Milk Company
Grinding Wheel Manufacturers Ass'n
The Hall-Childs Company
Hamilton Engraving & Woodcut Company
Hawthorn Grinding Wheel Company
Hawley Products Company
Hercules Glass Company
Hess & Moring Company
Hewitts Powder Company
John W. Hutchinson Company
J. H. Thompson Company
Maurel & Leche, Ltd. S. A. M. L.
Industrial Silica Corporation
Industrial Tug Corporation
International Business Machines Corp.
International Nickel Company, Inc.
Jack & Heintz, Inc.
Jackson Mills Engraving Company
Jamison Coal & Coke Company
Johns-Manville Corporation
Jones & Laughlin Steel Corporation
Keystone Engraving Mills
Kimble Glass Company
The Kirk & Thorn Manufacturing Company
Koppers Company
Hobbes Lumber & Shipbuilding
Lester & Co. Portland Cement
L. F. Lusk & Co.

[illegible]

National Association of Mutual Casualty Companies
National Cutchin Stone Association, Inc.
National Grinding Wheel Company
National Industrial Sand Association
National Lead Company
National Sand & Gravel Association
National Slag Association
The Neville Company
New Jersey Zinc Company
North American Refractories Company
Norton Company
Norton Pipe Company
Ontario Mining Association
Oriental Fire Insurance Co., Ltd.
Portland Cement Works, S.A.
Pott's Portland Cement Works, Ltd.
Tennessee Valley Electric Corporation
Tennessee Valley Glass Company

General Grinding Wheel Company
Tomball, Texas
The Eagle Corporation
The Eagle Corporation
P.O. Box 7000, Dallas, Texas
Federal Electric Association
Federal Electric Association
New York City
Precision Grinding Wheel Company, Inc.
The Pullman Company
Pullman Standard Car Manufacturing Co.
Chicago, Illinois

15-16-10-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-10

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

[illegible]

SPECIAL SUBSCRIBERS

UNITED STATES GOVERNMENT

Armed Forces
 Air Service Command, Fairbairn, Ohio
 Air Transportable Troop Laboratory
 Air Corps of Infantry
 Transportable Security Division
 Transportable Air Corps
 Weapons Security Command, Fort Mason
 Division of Medicine & Surgery,
 Navy Department
 Navy Yard, Charleston, S. C.
 Base Establishments Div., Navy Dept.

Other Federal Agencies

Office of War Information Libraries:
Hoschday
Johannesburg
London
Melbourne
Newbury
Sydney
Wellington
Winchester Valley Authority
U.S. Civil Service Commission
U.S. Public Health Service

STATE DEPARTMENTS OF HEALTH

California
Connecticut
Florida
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland
Massachusetts
Michigan
Minnesota
Mississippi
Missouri
Montana
New Jersey
New York
North Carolina
North Dakota
Ohio
Oklahoma
Oregon
Pennsylvania
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Utah
Vermont
Virginia
Washington
West Virginia
Wisconsin
Wyoming

City & State Agencies

NEW YORK: Department of Labor
and Social Security Administration
New York State Library
for Industrial Education
Florida Department of Labor &
Industry

CITY DIRECTORY OF NEW YORK

Baltimore
Detroit
St. Louis
Newark

Multiple Membership & Multiple Subjectation

INSTITUTIONS AND OTHER ORGANIZATIONS

American Association of Industrial Physicians and Surgeons
Harvard Business School
Johns Hopkins University
University of California
University of Chicago Libraries
University of Colorado
University of Texas
Health Institute of the UAW-CIO
Medical Administration Society
New School for Social Research
Northern California State Dental Ass'n

FOREIGN COUNTRIES

Department of National Health & Welfare, Ottawa, Canada
Institution of Health & Public Welfare,
Windsor, Canada
International Labour Office, Montreal
Ministry of Trade & Commerce, Ottawa
Ministry of Supply, Ottawa
National Research Council, London
University of Sydney, Australia
Netherlands Government Commission for
Scientific Documentation
The Government Mining Engineer,
Johannesburg, South Africa
Annamalaya Anthracite Collieries, Ltd.
Ammanford, South Wales

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

- A —
 Abington Pottery, Inc.
 Abrasive Division, U. S. Rubber Company
 Abrasive Grain Association
 Abrasive Products Company
 Allegheny Ludlum Steel Corporation
 Allegheny Pittsburgh Coal Company
 Alcoa-Chalmers Manufacturing Corp.
 Aluminum Company of America
 American Abrasive Company
 American Air Filter Company, Inc.
 American Brake Shoe Company
 American Cyanamid Company
 American Emery Wheel Works
 American Iron & Steel Institute
 American Mining Congress
 American Optical Company
 American Radiator & Standard Sanitary Corporation
 American Refractories Institute
 American Smelting & Refining Company
 American Zinc Institute
 American Zinc, Lead & Smelting Company
 Anaconda Copper Mining Company
 Arrow Mutual Liability Insurance Co.
 Ass'n of Casualty & Surety Executives
 Automobile Manufacturers Association
- B —
 Ball Brothers Company
 Barlett Collose Company
 Bay State Abrasive Products Company
 Bethlehem Steel Company, Inc.
 Bick & Sun, Inc.
 Bridgeport Safety Emery Wheel Company
 Bunker Hill & Sullivan Mining & Concentrating Company
- C —
 Canadian General Rubber Company, Ltd.
 The Carborundum Company
 Central Silica Company
 Chicago Wheel & Manufacturing Company
 Climax Molybdenum Company
 Robert F. Coleman, Inc.
 The Colorado Mining Association
 Consolidated Mining & Smelting Company of Canada, Ltd.
 Cooper-Bessemer Corporation
 Corhart Refractories Company
 Corning Glass Works
 Cortland Grinding Wheels Corporation
- D —
 Davison Chemical Corporation
 Deckers Creek Sand Company
 A. P. DeSanno & Son, Inc.
 Detroit-Star Grinding Wheel Company
 Diakel Corporation
- E —
 Eagle-Picher Company
 Electro-Surface, Inc.
 Electro Refractories & Alloys Corporation
 Eljer Company
 Ethyl Corporation
 Eureka Flint & Spar Company, Inc.
 Exelon Company
- F —
 The Falk Corporation
 Fifth Sterling Steel Company
 Foote Mineral Company
 Foundry Supply Manufacturers Ass'n
 Frazer-Simplex, Inc.
 Fuller Merriam Company
- G —
 Galvin Manufacturing Corporation
 Garco Products, Inc.
 Gardner Machine Company
 General Abrasive Company, Inc.
 General Aulino & Elm Corporation
 General Grinding Wheels Corporation
 General Motors Corporation
 General Refractories Company
 Glenshaw Glass Company, Inc.
 A. P. Green Fire Brick Company
 Grinding Wheel Manufacturers Ass'n
- H —
 The Hail China Company
 Hamilton Emery & Corundum Company
 Hampden Grinding Wheel Company
 Hawley Products Company
 Hazel-Atlas Glass Company
 Hercules Powder Company
 John W. Higman Company
 Maurice Hochschild S. A. M. I.
 O. Hommel Company
- I —
 Industrial Silica Corporation
 International Business Machines Corp.
 International Nickel Company, Inc.
- J —
 Jackson Mills Emery Company
 Jamison Coal & Coke Company
 Johns-Manville Corporation
 Jones & Laughlin Steel Corporation
- K —
 Kasey and Mattison Company
 Kenametal, Inc.
 Keystone Emery Mills
 Koble Glass Company
 The Kirk & Dym Manufacturing Company
 Koppers Company
- L —
 The Laughlin China Company
 Lehigh Crucible Company of Pittsburgh
 L. J. Levine & Company
 Lead Industries Association
- M —
 Mackintosh-Hemphill Company
 Macklin Company
 Magna Copper Company
 Maryland Self-Insurers' Association
 Metropolitan Life Insurance Company
 Mexico Refractories Company
 Mid-West Abrasive Company
 Mine Safety Appliances Company
 Monsanto Chemical Company
 Mutual Chemical Company of America
- Mc —
 J. S. McCormick Company
- N —
 National Association of Mutual Casualty Companies
 National Crushed Stone Association, Inc.
 National Grinding Wheel Company
 National Industrial Sand Association
 National Lead Company
 National Sand & Gravel Association
 National Slag Association
 The Neville Company
 New Jersey Zinc Company
 North American Refractories Company
 Norton Company
 Norton Pike Company
- O —
 Ontario Mining Association
 Oriental Abrasive Company
 Owens Silica Company
 Owens-Corning Fiberglass Corporation
 Owens-Illinois Glass Company
- P —
 Patinsular Grinding Wheel Company
 Penn-Billion Company
 Pennsylvania Glass Sand Corporation
 Phoenix Bridge Corporation
 Pittsburgh Coal Company
 Pittsburgh Plate Glass Company
 Plaskolite Division, Libby-Owens-Ford Co.
 Polished Corporation
 Portland Cement Association
 Pottery Research Corporation
 Powers X-Ray Products, Inc.
 Precision Grinding Wheel Company, Inc.
 The Pullman Company
 Pyrene Manufacturing Company
- R —
 Raybestos-Matheson, Inc.
 Republic Steel Corporation
 Riohio Mining Corporation
 H. H. Robertson Company
 Robertson Manufacturing Company
- S —
 Safety Fuel Supply Company
 Safety Grinding Wheel & Machine Co.
 Claude P. Schindler Company
 Scott Aviation Corporation
 Shinneco Furnace Company
 Simonds Abrasive Company
 Simonds Warden White Company
 South West Box Company
 St. Joseph Lead Company
 Standard Lime & Stone Company
 Sterling Grinding Wheel Company
- T —
 Tennessee Copper Company
 Texas Gulf Sulphur Company
 Titan Abrasives Company
 Toledo Edison Company
 Trenton Pottery Company
 Tri-State Zinc & Lead Ore Producers Association
- U —
 Union Asbestos & Rubber Company
 Union Carbide & Carbon Corporation
 United States Pottery Association
 United States Smelting Refining & Mining Company
 United States Steel Corporation of Del.
 Universal Sanitary Manufacturing Co.
 Utah Copper Company
 Utilities Research Commission
- V —
 Valley Mould & Iron Corporation
 Van Cleef Bros.
 Vanadium Corporation of America
 Vesuvius Crucible Company
 Vitrifired Wheel Company
- W —
 Waltham Grinding Wheel Company
 Washington Mill Abrasive Company
 Weston Silica Company
 West Virginia Manufacturers' Association
 Western Precipitation Corporation
 Westfield Grinding Wheel Company
 Westinghouse Air Brake Company
 Westinghouse Electric Corporation
 Whitehead Brothers Company
 Wilcoxon Products, Inc.
 Winthrop Chemical Company, Inc.
 Winthrop Abrasive Company
 Wolf's New Process Abrasive Wheel, Inc.
- Y —
 Youngstown Sheet & Tube Company

• Multiple Membership

- A —
 Abington Pottery, Inc.
 Abrasive Division, U. S. Rubber Company
 Abrasive Grain Association
 Abrasive Products Company
 Allegheny Ludlum Steel Corporation
 Allegheny Pittsburgh Coal Company
 Alcoa-Chalmers Manufacturing Corp.
 Aluminum Company of America
 American Abrasive Company
 American Air Filter Company, Inc.
 American Brake Shoe Company
 American Cyanamid Company
 American Emery Wheel Works
 American Iron & Steel Institute
 American Mining Congress
 American Optical Company
 American Radiator & Standard Sanitary Corporation
 American Refractories Institute
 American Smelting & Refining Company
 American Zinc Institute
 American Zinc, Lead & Smelting Company
 Anaconda Copper Mining Company
 Arrow Mutual Liability Insurance Co.
 Ass'n of Casualty & Surety Executives
 Automobile Manufacturers Association
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 Ball Brothers Company
 Barlett Collose Company
 Bay State Abrasive Products Company
 Bethlehem Steel Company, Inc.
 Bick & Sun, Inc.
 Bridgeport Safety Emery Wheel Company
 Bunker Hill & Sullivan Mining & Concentrating Company
- C —
 Canadian General Rubber Company, Ltd.
 The Carborundum Company
 Central Silica Company
 Chicago Wheel & Manufacturing Company
 Climax Molybdenum Company
 Robert F. Coleman, Inc.
 The Colorado Mining Association
 Consolidated Mining & Smelting Company of Canada, Ltd.
 Cooper-Bessemer Corporation
 Corhart Refractories Company
 Corning Glass Works
 Cortland Grinding Wheels Corporation
- D —
 Davison Chemical Corporation
 Deckers Creek Sand Company
 A. P. DeSanno & Son, Inc.
 Detroit-Star Grinding Wheel Company
 Diakel Corporation
- E —
 Eagle-Picher Company
 Electro-Surface, Inc.
 Electro Refractories & Alloys Corporation
 Eljer Company
 Ethyl Corporation
 Eureka Flint & Spar Company, Inc.
 Exelon Company
- F —
 The Falk Corporation
 Fifth Sterling Steel Company
 Foote Mineral Company
 Foundry Supply Manufacturers Ass'n
 Frazer-Simplex, Inc.
 Fuller Merriam Company
- G —
 Galvin Manufacturing Corporation
 Garco Products, Inc.
 Gardner Machine Company
 General Abrasive Company, Inc.
 General Aulino & Elm Corporation
 General Grinding Wheels Corporation
 General Motors Corporation
 General Refractories Company
 Glenshaw Glass Company, Inc.
 A. P. Green Fire Brick Company
 Grinding Wheel Manufacturers Ass'n
- H —
 The Hail China Company
 Hamilton Emery & Corundum Company
 Hampden Grinding Wheel Company
 Hawley Products Company
 Hazel-Atlas Glass Company
 Hercules Powder Company
 John W. Higman Company
 Maurice Hochschild S. A. M. I.
 O. Hommel Company
- I —
 Industrial Silica Corporation
 International Business Machines Corp.
 International Nickel Company, Inc.
- J —
 Jackson Mills Emery Company
 Jamison Coal & Coke Company
 Johns-Manville Corporation
 Jones & Laughlin Steel Corporation
- K —
 Kasey and Mattison Company
 Kenametal, Inc.
 Keystone Emery Mills
 Koble Glass Company
 The Kirk & Dym Manufacturing Company
 Koppers Company
- L —
 The Laughlin China Company
 Lehigh Crucible Company of Pittsburgh
 L. J. Levine & Company
 Lead Industries Association
- M —
 Mackintosh-Hemphill Company
 Macklin Company
 Magna Copper Company
 Maryland Self-Insurers' Association
 Metropolitan Life Insurance Company
 Mexico Refractories Company
 Mid-West Abrasive Company
 Mine Safety Appliances Company
 Monsanto Chemical Company
 Mutual Chemical Company of America
- Mc —
 J. S. McCormick Company
- N —
 National Association of Mutual Casualty Companies
 National Crushed Stone Association, Inc.
 National Grinding Wheel Company
 National Industrial Sand Association
 National Lead Company
 National Sand & Gravel Association
 National Slag Association
 The Neville Company
 New Jersey Zinc Company
 North American Refractories Company
 Norton Company
 Norton Pike Company
- O —
 Ontario Mining Association
 Oriental Abrasive Company
 Owens Silica Company
 Owens-Corning Fiberglass Corporation
 Owens-Illinois Glass Company
- P —
 Patinsular Grinding Wheel Company
 Penn-Billion Company
 Pennsylvania Glass Sand Corporation
 Phoenix Bridge Corporation
 Pittsburgh Coal Company
 Pittsburgh Plate Glass Company
 Plaskolite Division, Libby-Owens-Ford Co.
 Polished Corporation
 Portland Cement Association
 Pottery Research Corporation
 Powers X-Ray Products, Inc.
 Precision Grinding Wheel Company, Inc.
 The Pullman Company
 Pyrene Manufacturing Company
- R —
 Raybestos-Matheson, Inc.
 Republic Steel Corporation
 Riohio Mining Corporation
 H. H. Robertson Company
 Robertson Manufacturing Company
- S —
 Safety Fuel Supply Company
 Safety Grinding Wheel & Machine Co.
 Claude P. Schindler Company
 Scott Aviation Corporation
 Shinneco Furnace Company
 Simonds Abrasive Company
 Simonds Warden White Company
 South West Box Company
 St. Joseph Lead Company
 Standard Lime & Stone Company
 Sterling Grinding Wheel Company
- T —
 Tennessee Copper Company
 Texas Gulf Sulphur Company
 Titan Abrasives Company
 Toledo Edison Company
 Trenton Pottery Company
 Tri-State Zinc & Lead Ore Producers Association
- U —
 Union Asbestos & Rubber Company
 Union Carbide & Carbon Corporation
 United States Pottery Association
 United States Smelting Refining & Mining Company
 United States Steel Corporation of Del.
 Universal Sanitary Manufacturing Co.
 Utah Copper Company
 Utilities Research Commission
- V —
 Valley Mould & Iron Corporation
 Van Cleef Bros.
 Vanadium Corporation of America
 Vesuvius Crucible Company
 Vitrifired Wheel Company
- W —
 Waltham Grinding Wheel Company
 Washington Mill Abrasive Company
 Weston Silica Company
 West Virginia Manufacturers' Association
 Western Precipitation Corporation
 Westfield Grinding Wheel Company
 Westinghouse Air Brake Company
 Westinghouse Electric Corporation
 Whitehead Brothers Company
 Wilcoxon Products, Inc.
 Winthrop Chemical Company, Inc.
 Winthrop Abrasive Company
 Wolf's New Process Abrasive Wheel, Inc.
- Y —
 Youngstown Sheet & Tube Company

• Multiple Membership

Proc. 10th Ann. Meeting, Nov. 14-15, 1945

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Transactions, Bull # 8,
11th Ann. Meeting, Nov 7, 1946.

1946

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

— A —

Abingdon Potteries, Inc.
Abrasive Division, U. S. Rubber Company
Abrasive Grain Association
Abrasive Products Company
Allegheny Ludlum Steel Corporation
Allegheny Pittsburgh Coal Company
Allis-Chalmers Manufacturing Company
Aluminum Company of America
Amalgamated Anthracite Collieries, Ltd.
American Abrasive Company
American Air Filter Company, Inc.
American Brake Shoe Company
American Can Company
American Cyanamid Company
American Emery Wheel Works
American Foundry Equipment Company
American Iron & Steel Institute
American Mining Congress
American Optical Company
American Radiator & Standard
Sanitary Corporation
American Refractories Institute
American Smelting & Refining Company
American Zinc Institute
American Zinc, Lead & Smelting Company
Anaconda Copper Mining Company
Anthracite Institute
Arrow Mutual Liability Insurance Company
Assoc. of Casualty & Surety Executives*
Austin Motor Co., Ltd.
Automobile Manufacturers Association

— B —

Ball Brothers Company
Bartlett-Collins Company
Bay State Abrasive Products Company
Bethlehem Steel Company, Inc.
Bird & Son, Inc.
Bituminous Casualty Corporation
Bridgeport Safety Emery Wheel Company
Brush Beryllium Company
Bunker Hill & Sullivan Mining &
Concentrating Company

— C —

Canadian General Rubber Company, Ltd.
The Carborundum Company
Caterpillar Tractor Company
Central Silica Company
Chicago Wheel & Manufacturing Company
Robert F. Coleman, Inc.
The Colorado Mining Association
Consolidated Mining & Smelting Company
of Canada, Ltd.
Cooper-Bessemer Corporation
Corhart Refractories Company
Corning Glass Works
Cortland Grinding Wheels Corporation

— D —

Davison Chemical Corporation
Deckers Creek Sand Company
A. P. DeSanno & Son, Inc.
Detroit-Star Grinding Wheel Company
Diakel Corporation
Diamond Alkali Company
Dow Chemical Company
B. F. Drakenfeld Company
Dravo Corporation

— E —

Eagle-Picher Company
Eastern Gas and Fuel Associates
Ebasco Services, Inc.
Electro Refractories & Alloys Corporation
Eljer Company
Ethyl Corporation
Eureka Flint & Spar Company, Inc.
Exelon Company

— F —

The Falk Corporation
Firth Sterling Steel Company
H. E. Fletcher Company
Foote Mineral Company
Ford Motor Company
Foundry Supply Manufacturers Assoc.
Frazier-Simplicx, Inc.
Fuller Merriam Company
The Funkhouser Company

* Multiple Membership

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

— G —

Garco Products, Inc.
Gardner Machine Company
General Abrasive Company, Inc.
General Aniline & Film Corporation
General Grinding Wheels Corporation
General Motors Corporation
General Refractories Company
Glenshaw Glass Company, Inc.
A. P. Green Fire Brick Company
Grinding Wheel Manufacturers Assoc.

— H —

The Hall China Company
Hamilton Emery & Corundum Company
Hampden Grinding Wheel Company
Hawley Products Company
Hazel-Atlas Glass Company
Hercules Powder Company
John W. Harman Company
Mauricio Hochschild S. A. M. I.
O. Hommel Company

— I —

Imperial Chemical Industries, Ltd.
Industrial Silica Corporation
Inland Steel Company
Interchemical Corporation
International Business Machines Corp.
International Nickel Company, Inc.

— J —

Jackson Mills Emery Company
Jamison Coal & Coke Company
Johns-Manville Corporation
Jones & Laughlin Steel Corporation

— K —

Keasbey and Mattison Company
Kennecott Copper Corporation
Kerstone Emery Mills
Kimble Glass Company
The Kirk & Plum Manufacturing Company
The Edwin M. Knowles China Company
Koppers Company

— L —

Homer Laughlin China Company
Lava Crucible Company of Pittsburgh
E. J. Lavino & Company
Lead Industries Association

— M —

Mackintosh-Hemphill Company
Macklin Company
Magma Copper Company
Maryland Self-Insurers' Association
Mayer China Company
J. S. McCormick Company
Metropolitan Life Insurance Company
Mexico Refractories Company
Mid-West Abrasive Company
Mine Safety Appliances Company
Monsanto Chemical Company
Mutual Chemical Company of America

— N —

National Association For Manufacturers
National Association of Mutual Casualty Companies*
National Crushed Stone Association, Inc.
National Grinding Wheel Company
National Industrial Sand Association
National Lead Company
National Sand & Gravel Association
National Siag Association
National Steel Company
National Supply Company
The Neville Company
New Jersey Zinc Company
North American Refractories Company
Norton Company
Norton Pike Company

— O —

Ontario Mining Association
Oriental Abrasive Company
Ottawa Silica Company
Owens-Corning Fiberglas Corporation
Owens-Illinois Glass Company

* Multiple Membership

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

— P —

Peninsular Grinding Wheel Company
Penn-Rillton Company
Pennsylvania Glass Sand Corporation
Phelps Dodge Corporation
Pittsburgh Coal Company
Pittsburgh Plate Glass Company
Polaroid Corporation
Portland Cement Association
Posture Research Corporation
Powers X-Ray Products, Inc.
Precision Grinding Wheel Company, Inc.
The Pullman Company
Pyrene Manufacturing Company

— R —

Raybestos-Manhattan, Inc.
Republic Steel Corporation
Rialto Mining Corporation
H. H. Robertson Company
Robertson Manufacturing Company

— S —

Safety First Supply Company
Safety Grinding Wheel & Machine Co.
Sand Products Corporation
Claude B. Schneible Company
Shenango Furnace Company
Simonds Abrasive Company
Simonds Worden White Company
South West Box Company
St. Joseph Lead Company
Standard Lime & Stone Company
The Standard Ultramarine Company
Sterling China Company
Sterling Grinding Wheel Company
Sun Sand Company

— T —

Tata Sons, Ltd.
Taylor, Smith & Taylor Company
Tennessee Copper Company
Texas Gulf Sulphur Company

— T —

Titan Abrasives Company
Toledo Edison Company
Trenton Potteries Company
Tri-State Zinc & Lead Ore Producers Association

— U —

Union Asbestos & Rubber Company
Union Carbide & Carbon Corporation
United States Potters Association
United States Smelting Refining & Mining Company
United States Steel Corporation of Del.
Universal Sanitary Manufacturing Co.
Utilities Research Commission*

— V —

Valley Mould & Iron Corporation
Van Cleef Bros.
Vanadium Corporation of America
Vesuvius Crucible Company
Vitreous China Plumbing Fixtures Association
Vitrified Wheel Company

— W —

Waltham Grinding Wheel Company
Washington Mills Abrasive Company
Wedron Silica Company
West Virginia Manufacturers' Association
Western Precipitation Corporation
Westfield Grinding Wheel Company
Westinghouse Air Brake Company
Westinghouse Electric Corporation
Whitehead Brothers Company
Willson Products, Inc.
Winthrop Chemical Company, Inc.
Wisconsin Abrasive Company
Wolf's New Process Abrasive Wheel, Inc.

— Y —

Youngstown Sheet & Tube Company

* Multiple Membership

I-H-F IN 1947

JOHN F. McMAHON

Managing Director, Industrial Hygiene Foundation

What has Industrial Hygiene Foundation done during the past year?

The following are some partial answers to that question:

At the first meeting of the Foundation's Board of Trustees, on December 16, 1935, this organization was launched with 23 member companies and associations. As of today, there are 349 members.

Twenty-two companies and associations have affiliated thus far this year. They are:

American Can Company	Inland Steel Company
Anthracite Institute	National Ass'n Fan Manufacturers
Atlas Powder Company	National Pulverizing Company
Austin Motor Company (England)	National Steel Corporation
Crucible Steel Company	National Supply Company
Federal-Mogul Corporation	New Jersey Pulverizing Company
Firestone Tire & Rubber Co.	Pittsburgh Coke & Chemical Co.
Ford Motor Company	Sharon Steel Corporation
General Ceramics & Steatite Co.	Sun Oil Company
General Electric Company	Sun Sand Company
Godrej and Boyce Mfg. Co.	Sylvania Electric Products Co.

Actually, the number of new members is 54 inasmuch as one of the organizations is the Anthracite Institute, which has taken out a multiple membership covering its 32 member companies. There are now 103 special subscribers—governmental agencies, private institutions, etc.

Field Work

Field work continued to increase in a satisfactory manner and involved studies in approximately 70 different plants. This work will be described by Mr. Hatch, the Foundation's Research Director. In an engineering survey for the pottery industry, directed by Mr. Hemeon, Head Engineer, the Foundation collaborated with the U. S. Potters Association to hold a Pottery Dust Control Clinic here in Mellon Institute on October 13. Sixteen companies sent 31 representatives to this all-day conference.

*Trans. Buil. No. 9, 12th Ann. Meet
Nov. 20, 1947*

I-H-F IN 1948

JOHN F. McMAHON

Managing Director, Industrial Hygiene Foundation

Membership

The membership of Industrial Hygiene Foundation now numbers 353 companies and associations, plus 105 special subscribers.

New members during the year to date are:

Canadian Institute of Stove and
Furnace Manufacturers

Ferro Enamel Corporation

The Glidden Company

The B. F. Goodrich Company

Homestake Mining Company

Pangborn Corporation

Revere Copper & Brass, Inc.

Scaife Company

Standard Oil Company (N.J.)

Meanwhile, applications for membership have just been received from Lever Brothers Company and Southern Mica Company. These will be acted upon by the Foundation's Board of Trustees at their annual meeting today.

Research

Early this year, the Foundation announced the establishment of a new laboratory for industrial toxicology and physiology. This step was taken in response to demands from member companies. The new laboratory marks a highly important advance in the development of this research association of industries—a development that strengthens the Foundation and that promises important benefits not only to the members and their employees but ultimately to all members of America's industrial society.

Two projects, both of one-year duration, have already been initiated and several short-time investigations have been completed.

Plant studies and field researches conducted by the Foundation's staff this year have exceeded, both in scope and importance, anything previously undertaken. The work has included a trip by two men to South America and a number of trips to Canada.

Foundation research will be dealt with fully this morning in report by Mr. Hatch, our Research Director.

[4]

Trans. Bull. No. 10, 134th Ann. Meeting

Nov. 18, 1948

1949

FOUNDATION FACTS

JOHN F. McMAHON

Managing Director, Industrial Hygiene Foundation

Membership

The following companies and organizations affiliated or re-affiliated with Industrial Hygiene Foundation during 1949:

Peere & Company	Jeffrey Manufacturing Company
Sucony Vacuum Oil Company	Rome Cable Company
Texas Company	Metal & Thermit Corporation
Sylvania Electric Products, Inc.	Southern Mica Company
Dochler-Jarvis Corporation	West Virginia Manufacturers Association
Lever Brothers Company	East Indian Railway

Field Studies

The volume of field studies carried on during the year was greater than ever before. Highlights of this work included half a dozen surveys dealing with community air pollution; these were made for Foundation Members in the steel and glass industry, and for the Atomic Energy Commission. Likewise a number of studies were made or are in progress, to determine the health and medical needs of certain member companies. The Foundation welcomes projects of this kind, showing a company what it should have to provide adequately for the health of its employees, the cost, administrative procedures, the medical facilities needed for a given type of firm—these constitute lasting contributions to labor, industry, to human relations, to developing human resources.

Personnel

We announced to the Foundation's membership the appointment of Dr. H. H. Schenck as Research Director of Industrial Hygiene Foundation. This pleasing development became effective October 1. Dr. Schenck comes to the Foundation after establishing an international reputation in industrial hygiene at the U.S. Bureau of Mines and more recently with the U.S. Public Health Service. Mr. Theodore F. Hatch is now dividing his time between the Foundation and the new School of Public Health at the University of Pittsburgh—

[5]

*Trans Bull, No. 11, 14th Ann. Meeting,
Nov. 17, 1949*

1950

FOUNDATION FACTS

ANDREW FLETCHER, Eng.D.

President, St. Joseph Lead Company
Chairman, Board of Trustees, Industrial Hygiene Foundation

It has been John McMahon's custom to present to you at this time "Foundation Facts." That responsibility today falls on me. Most of you know what the facts are, but we have probably a few new members and a few new friends, so I will just briefly outline them. Our Foundation started in 1935, when a group of companies banded together on account of the silicosis problem. That organization was known as the Air Hygiene Foundation. We had only some 20 companies, but the early work of the Foundation so impressed other companies that year after year our membership has increased, until today we have approximately 350 of the outstanding companies in the United States who are really interested in improving the working and living conditions of their employees.

National recognition to the Foundation as a competent, impartial research organization was not long in coming, and today, gentlemen, we deserve that recognition. I hope that we will always hold it. The eight companies who joined us this year are representative of our membership list—anyone who would like to have a complete list of our membership can obtain it through our offices here. The eight new companies which joined in 1950 were:

Bradley Mining Company
A. M. Byers Company
Commercial Solvents Corporation
Gulf Oil Corporation
Joy Manufacturing Company
Wyckoff Steel Company
General Ceramics and Steatite Corporation
Pullman-Standard Car Manufacturing Company

I would be amiss if I didn't tell you that your Foundation is in excellent financial condition. We started the year with roughly \$101,000 in cash and short term Government bonds, and we estimate that we will end 1950 with \$115,000.

Major Research Problems

Research results in facts. Constructive policies affecting better working conditions can only be based on facts. And facts are certainly the product of your Foundation. The goal of our Foundation is somewhat visionary, and its labors will only be completed when

[4]

*Trans. Bull. No. 15, 15th Ann. Meeting
Nov. 16 1950*

1951

Reprints of addresses continue to be in demand. Requests are still coming in for the talk on "The Human Side of Business," which was made at the 1950 meeting by Dr. Donald K. David, Dean, Graduate School of Business Administration at Harvard. There have been numerous requests for copies of Don G. Mitchell's 1951 keynote address on "Human Dignity."

The following companies have affiliated with the Foundation since January 1:

American Foundrymen's Society	Pennsylvania Railroad Company
Cleveland-Cliffs Iron Company	Prismo Safety Corporation
General Mills, Inc.	Sandia Corporation
General Steel Castings Company	Trion, Inc.
Lakey Foundry and Machine Company	U.S. Pipe and Foundry
	West Michigan Steel Foundry Company
	Wheeling Steel Corporation Company

The Foundation is now serving more than 360 member companies.

The American Iron and Steel Institute training program is one of three established at the Foundation. A new—and important one to us—is that of the Foundation's sponsoring the further education of a medical graduate who is at present studying in the University of Pittsburgh Graduate School of Public Health. The University grants a scholarship, and the Foundation gives financial assistance to the student. This trainee program is the beginning of the Foundation's plan to train future staff members.

In addition to this student in the Graduate School, the Foundation employs part time an undergraduate student of chemical engineering, who is a prospective future staff member.

Listed among the managing director's activities for the past year were numerous talks, one of which took place at the Tenth International Congress on Industrial Medicine held in Lisbon, Portugal, in September. While abroad, the managing director also discussed the role of industrial hygiene in the 79-nation World Health Organization when he conferred at its headquarters in Geneva, Switzerland, with the director, Dr. Brock Chisholm.

Dr. H. H. Schrenk, research director, and W. C. L. Hemeon, engineering director, spoke on "Smoke Abatement" at a recent monthly meeting of the City Council of Weirton, West Virginia. Thomas E. Millsop, President of the City Council, also is president of Weirton Steel Company which, at present, has a trainee in the American Iron and Steel Institute program at the Industrial Hygiene Foundation Laboratory in Mellon Institute.

[83]

*Trans Bull. No. 19, 16th Ann. Meeting,
Nov 15, 1951*

1952 No Record

istic, but because the relationship of industrial health with all the other health fields is becoming increasingly evident. It is directly allied with public health in that a workman must be kept healthy 24 hours a day if he is to do an efficient job for 8 of those hours. Therefore, progressive managements concern themselves with the physical and mental well-being of the worker, his family, his whole community. Physical examinations of employees catch nonoccupational diseases in their incipient stages while there is still time to effect a cure. Physical defects are also uncovered and make it possible to place the man on a job commensurate with his physical condition, thereby prolonging his economically productive years. Health education in the plant is reflected in improved living standards outside its walls. Everybody benefits, including the employer.

Essential Part of Management Program

In certain companies, in-plant health programs have reduced absenteeism by more than 29%, labor turnover by almost the same, and have cut occupational diseases in half. Considered in this light it is obvious that a good industrial health program is an essential part of any management program in industry. I don't need to spell out to you the disrupting and costly effect that absenteeism alone has on production. The savings through reduction in absenteeism can easily offset the cost of a health program.

To achieve the best possible working and living conditions for their employees, many industries have turned to Industrial Hygiene Foundation for guidance. Although we have shown a continuing growth over the last 12 years, I am happy to say that 1953 has been one of our most satisfactory, as evidenced by:

Twelve New members → 1953

Can Manufacturers Institute, Inc.
Continental Can Company
Sugar Beet Products Company
McLean Manufacturing Company
Kennecott Copper Corporation
Doehler-Jarvis Division, National Lead Company
Reg-Cro Titanium, Inc.
Owens-Corning Fiberglas Corporation
McLain Fire Brick Company
Johnson and Johnson
→ Ruberoid Company
St. Regis Paper Company

1954

FOUNDATION FACTS

C. RICHARD WALMER, M.D.

Managing Director, Industrial Hygiene Foundation

The most illuminating measure of Industrial Hygiene Foundation's progress and growth is to be found right here in this auditorium. The increasing attendance at each Annual Meeting is evidence of the enthusiastic support you and the companies you represent are giving to the Foundation. With such interest, it was inevitable that the Foundation would achieve much in its first 20 years toward making better environmental health a reality. With a continuation of this interest, we look forward confidently to a still greater degree of success.

Membership

We are pleased to welcome twelve new member companies to this year's meeting. They are:

Asbestos Corporation Limited
Commonwealth Sanitation Company
G. H. Packwood Manufacturing Company
Georgis Kaolin Company
Mechanical Industries, Inc.
Phillips Petroleum Company
Pilot Chemical Company
Radio Corporation of America
I. L. Stiles and Sons Brick Company
U. S. Asbestos Division of Raybestos-Manhattan, Inc.
Western Electrochemical Company
Wyandotte Chemicals Corporation

This brings the Foundation's membership to 365 companies having a total of more than three million employees. Special subscribers to the monthly *Digest* and other publications now include 128 governmental health agencies and other health and education institutions. Among them are 30 such organizations in 14 foreign countries.

Almost every industrial category is represented on the Foundation's membership roster. The staff of the Foundation is proud to be the medium through which all of these diversified industries can unite their efforts in protecting the health of their workers and their consumers.

Helping immeasurably to make this possible through the years has been the interest and support of Mellon Institute. We owe a

[5]

*Trans. Bull. No. 28, 1944 Ann.
Meeting, Nov. 17-18, 1954*

1955

We like to feel that through the years these meetings, too, have proved valuable to you in affording an opportunity to get together with representatives of fields other than your own so that lines of communication can be strengthened and problems ironed out.

We hope that all of you, and particularly the new members, will take every opportunity to call on the Foundation's staff for assistance. I would like to welcome, at this time, eleven new members to this year's meeting. They are:

Baugh Chemical Company
The Beryllium Corporation
Cora Products Refining Company
Crouse-Hinds Company
Crown Zellerbach Corporation
Detroit Steel Products Company
Industrial Indemnity Company
Mechanical Industries, Inc.
Olin Mathieson Chemical Corporation
Pittsburgh Steel Company
Standard Oil Company of California

This twentieth year of the Foundation's existence saw the completion of a number of important field and research projects and the initiation of new ones. Environmental surveys included studies of dust exposures and other atmospheric contaminants, for which control procedures were recommended and parallel medical controls set up. Several surveys involved determination of the outdoor air pollution as well as that at specific manufacturing operations.

Two complete medical surveys were made which resulted in the modernization of existing medical programs to encompass health maintenance activities.

Several new products have been investigated in our toxicological laboratory to ascertain whether any harmful properties were present. Other studies were carried out to determine the effects on the lungs of dust from various substances used in manufacturing. One of these investigations extends over a three-year period, another over two years.

Extensive air pollution investigations continued throughout the year.

The work carried on by the Foundation this year involved a budget expenditure of a quarter of a million dollars. Figures were cut close, but we expect to end the year with a balanced budget. Our total cash and securities amount to \$175,000.

Elected to the Board of Trustees this year were Mr. John Bugas.

[6]

Trans. Bull., No. 29, 20th Ann. Meeting,
Nov. 16-17-1955

1956

FOUNDATION FACTS

C. RICHARD WALMER, M.D.

Managing Director, Industrial Hygiene Foundation

It is indeed a pleasure to have so many of the Foundation's member companies represented here today. The charter members of Industrial Hygiene Foundation visualized it as a unifying agent, aiding in the advancement of occupational health on an industry-wide front, and I think your presence here today justifies their belief that industry needed and wanted such an organization. The joint effort of companies to foster health of workmen has been an effective method of dealing with socio-economic problems relating to industrial health.

Of equal importance in advancing industrial health are the individual efforts of companies to achieve optimum health maintenance in their respective plants. I think the member companies of Industrial Hygiene Foundation are leaders in this respect.

We want at this time to welcome seventeen new members to this year's meeting. They are:

Allied Chemical & Dye Corporation
AMP Incorporated
Association of American Railroads
Association of American Soap and
Glycerine Producers, Inc.
Boeing Airplane Company
The Cleveland Graphite Bronze Company
Dow Corning Corporation
Equitable Life Assurance Society
of the United States
Farrell-Cheek Steel Company
Jesse S. Morie & Son, Inc.
Minneapolis-Honeywell Regulator Company
Pennsylvania Manufacturers' Association
Casualty Insurance Company
Sauereisen Cements Company
Sperry Gyroscope Company
Standard Oil Company of Indiana
Wald Industries Inc.
Western Maryland Railway

We hope that all of you will consider the Foundation as part of your own technical staff, and we look forward to being of assistance to you.

During the past year the Foundation's staff completed a number of important field and research projects. Environmental surveys were

[4]

Nov - 14-15, 1956

Trans. Bull. No. 30, 21st Ann. Meeting

*Trans. Bull. No. 31, 22nd Ann. Meeting,
Oct 30-31, 1957*

Foundation Facts

C. RICHARD WALMER, M.D., Pittsburgh

It is indeed a pleasure to welcome all of you to this 22d Annual Meeting of Industrial Hygiene Foundation, not only because I am always happy to see so many members of the Foundation here, but because I believe this audience represents the formula for hurdling obstacles that present themselves in just about every major human endeavor. And that formula is communication—not just communication within the boundaries of our own specialties, but communication across lines, across barriers of misunderstanding that lack of information and insight can create.

We hope that the program which has been arranged for you will help to bring about a clearer understanding of the interrelationship of management, technical, and medical aspects of health maintenance.

We want at this time to welcome 11 new members to this year's meeting. They are the following:

The American Metal Co., Ltd.

The Atchison, Topeka and Santa Fe Railway System

Brazilian National Steel Company

Dick Corporation

General Foods Corporation

Ingersoll-Humphreys Division of Borg-Warner Corporation

Lucile Steel Company

Minnesota Mining & Manufacturing Co.

Reaction Motors, Inc.

Research-Cottrell, Inc.

Sheriff Steel Division of Armco Steel Corporation

We hope that you will consider the Foundation as part of your own technical staff, and we look forward to being of assistance to you.

During the past year the Foundation's staff completed a number of important field

and research projects. Environmental surveys were made for member companies to evaluate the degree of hazardous exposures to dust, fumes, and other atmospheric contaminants. Control measures were based upon this evaluation of the working environment. Investigations were also made of community air pollution, and stack discharges at industrial plants were measured to determine whether these were a contributing factor.

Two major epidemiological studies were carried on during the year, one to determine the health status of workers in a specific industry and whether there is a relationship between environmental exposures and certain biologic effects, and the other to investigate the biologic effects of certain chemical compounds.

Another major medical study was the survey of the medical program of one member company, a redesigning of it, and the preparation of a manual of procedures.

A number of research investigations in the Foundation's toxicological laboratory were concerned with the development of fundamental information appraising and controlling occupational disease hazards. Among long-range projects of this type is one being conducted for an association of industries to study biological factors in air pollution. Another is a research project to study potential hazards of a new product, and includes pulmonary, gastrointestinal, and eye-irritation studies. Findings serve as a basis for evolving proper control measures to protect the health of workers and consumers.

These are just the highlights of the work carried on this year. There were many other projects of a lesser magnitude but equally

1958

No REcord

1959 Ann. Rpt

MEMBERS OF INDUSTRIAL HYGIENE FOUNDATION

—A—

Abingdon Potteries, Inc.
Abrasive Grain Association
Abrasive Products Company
Acme Abrasive Company
Aerovent Fan Company, Inc.
Allegheny Ludlum Steel Corporation
Allegheny Pittsburgh Coal Company
Allied Chemical Corporation
Allis-Chalmers Manufacturing Company
Aluminum Company of America
American Abrasive Company
American Air Filter Company, Inc.
American Brake Shoe Company
American Can Company
American Emery Wheel Works
American Iron and Steel Institute
American Metal Climax, Inc.
American Mining Congress
American Optical Company
American Smelting & Refining Company
American Zinc Institute, Inc.
American Zinc, Lead & Smelting Company
Anaconda Company
Asbestos Corporation Limited
Assn. of American Railroads
Assn. of American Soap & Glycerine
Producers, Inc.
Assn. Argentina de Empresarios Mineros
Assn. of Casualty & Surety Companies*
Atchafalaya, Topeka and Santa Fe
Railway System
Automobile Manufacturers Association

—B—

Ball Brothers Company
Bartlett-Collins Company
Baugh and Sons Company
Bay State Abrasive Products Company
Beryllium Corporation
Bethlehem Steel Company, Inc.
Bird & Son, Inc.
Bituminous Casualty Corporation
Boeing Airplane Company
Brush Beryllium Company
George H. Bullard Company
Bunker Hill Company

—C—

Can Manufacturers Institute, Inc.
Carborundum Company
Catalytic Combustion Corporation
Celanese Corporation of America
Central Silica Company
Chicago Wheel & Manufacturing Company
Cincinnati Milling Products
Cleveland Graphite Bronze Company
Robert F. Coleman, Inc.
Colonial Abrasive Products Company
Commonwealth Sanitation Company
Companhia Siderurgica Nacional
Consolidation Coal Company, Inc.
Continental Can Company, Inc.
Copperweld Steel Company
Corn Products Company
Cortland Grinding Wheels Corporation

—D—

Deckers Creek Sand Company
Deere & Company
A. P. de Sanno & Son, Inc.
Diamond Alkali Company
Dow Chemical Company
B. F. Drakenfeld & Company, Inc.
Dravo Corporation

—E—

Eagle-Picher Company
Ebasco Services, Inc.
Electric Storage Battery Company
Electro Refractories & Abrasives Corporation
Eljer Company
Equitable Life Assurance Society of the U.S.
Esso Research and Engineering Company
Ethyl Corporation
Exolon Company

—F—

Falk Corporation
Farrell-Check Steel Company
Ferro Corporation
Foote Mineral Company
Ford Motor Company
Fostoria Glass Company
Foundry Facings Manufacturers Association
Fuller Merriam Company

* Multiple Membership (147 member companies)

MEMBERS (continued)

—G—

Gardner Machine Company
Geigy-Werke Schweizerhalle A.G.
General Abrasive Company, Inc.
General Ceramics Corporation
General Electric Company
General Grinding Wheel Corporation
General Mills, Inc.
General Motors Corporation
General Refractories Company
Georgia Kaolin Company
Glenshaw Glass Company, Inc.
W. R. Grace & Company
Grinding Wheel Institute
Gulf Oil Corporation

—H—

Hall China Company
Hamilton Emery & Corundum Company
Hampden Grinding Wheel Company
Hazleton Laboratories
Hercules Powder Company
Homestake Mining Company

—I—

Ingersoll-Humphreys
Inland Steel Company
International Business Machines Corp.
International Nickel Company

—J—

Johns-Manville Corporation

—K—

Keasbey & Mattison Company
Kennecott Copper Corporation
Keystone Abrasive Wheel Company
Kirk & Blum Manufacturing Company
Koppers Company, Inc.

—L—

Homer Laughlin China Company
Lava Crucible-Refractories Company
E. J. Lavino and Company
Lead Industries Association
London Transport Executive

—M—

Macklin Company
Manhattan Rubber
Maryland Self-Insurers' Association
J. S. McCormick Company
Mexico Refractories
Mid-West Abrasive Company
Mine Safety Appliances Company
Minneapolis-Honeywell Regulator Company
Minnesota Mining & Manufacturing Company
Jesse S. Morie & Son, Inc.

—N—

National Assn. of Mutual Casualty Cos. *
National Crushed Stone Association, Inc.
National Glass Sand Corporation
National Grinding Wheel Company, Inc.
National Industrial Sand Association
National Lead Company
National Sand & Gravel Association, Inc.
National Slag Association
National Steel Corporation
Neville Chemical Company
New Jersey Pulverizing Company

—O—

Ottawa Silica Company
Owens-Corning Fiberglass Corporation
Owens-Illinois Glass Company

—P—

Pacific Grinding Wheel Manufacturing Co.
G. H. Packwood Manufacturing Company
Pangborn Corporation
Peninsular Grinding Wheel
Penn-Rillon Company
Pennsylvania Glass Sand Corporation
Pennsylvania Manufacturers' Association
Casualty Insurance Company
Phelps Dodge Corporation
Philadelphia Quartz Company
Phillips Petroleum Company
Pittsburgh Coke & Chemical Company
Pittsburgh Plate Glass Company
Pittsburgh Steel Company
Portland Cement Association
Pullman Incorporated Foundation

* Multiple Membership (24 member companies)

MEMBERS (continued)

—R—

Reaction Motors
Red Hill Grinding Wheel Corporation
Republic Steel Corporation
Research-Cottrell, Inc.
H. H. Robertson Company
Robertson Manufacturing Company
Rome Cable Corporation

—U—

Union Carbide Corporation
United States Pottery Association
United States Rubber Company
United States Steel Corporation
Universal-Rundle Corporation

—S—

Safety First Supply Company
St. Joseph Lead Company
Sandia Corporation
Sauerstein Cement Company
Claude B. Schneible Company
Scott Aviation Corporation
Sharon Steel Corporation
Sheffield Steel
Shenango Furnace Company
Simonds Abrasive Company
Simonds Worden White Company
Socony Mobil Oil Company, Inc.
Standard Lime and Cement Company
Standard Oil Company of California
Standard Ultramarine and Color Company
Sterling Grinding Wheel Company
Sugar Beet Products Company

—V—

Valley Mould & Iron Corporation
Vesuvius Crucible Company
Vitrified Wheel Company

—W—

Waltham Grinding Wheel Company
Washington Mills Abrasive Company
Wedron Silica Company
Western Maryland Railway Company
Westfield Grinding Wheel Company
Westinghouse Air Brake Company
Westinghouse Electric Corporation
Wheelabrator Corporation
Whitehead Brothers Company
Willson Products
Wyckoff Steel Company

—T—

Tata Industries Limited
Taylor, Smith & Taylor Company
Tennessee Copper Company
Texas Gulf Sulphur Company
Titan Abrasives Company
Trenton Pottery Company
Trilon, Inc.
Tusco Corporation

—Y—

Youngstown Sheet and Tube Company

1960

No REcord

1961 Ann. Sept.
given specific information on their dust problem wrote and thanked us for this assistance and stated "Your advice and references have 'cleared the air' enabling us to face our atmospheric pollution with something more than doubt and suspicion."

A second training course for industrial hygiene engineers and chemists was conducted in cooperation with the Occupational Health Research Training Facility of the U. S. Public Health Service. An intensive two weeks was devoted to work in the laboratory and lectures. The response of those taking the course is evidence of the benefits to be derived from this activity and it is planned to repeat the course in 1962. A two-day seminar on the current aspects of the dust problem was conducted under the sponsorship of the National Industrial Sand Association and the Foundry Facing Manufacturers Association. This provided an opportunity for the members of these associations to obtain up-to-date information on the medical, engineering and legal aspects of problems associated with their operations.

The Foundation provides an opportunity for representatives of industry to come together as working groups to explore and better define what they are doing and to take leadership in planning and developing policies to anticipate and prepare for new problems which we must face in the future. The real strength of the Foundation is in the unified action of its members.

On behalf of the staff, I wish to express our deep appreciation for the helpful and encouraging support and the valuable contributions of the Board of Trustees and its Executive Committee, the Technical Committees, and the executive staff of Mellon Institute.

NEW MEMBERS - 1961

American Viscose Corporation
Armco Steel Corporation
Butler County Mushroom Farm, Inc.
The Cooper-Bessemer Corporation
Davison Chemical Division
W. R. Grace & Company
Ferro-Glo Corporation
Hanley Company
Hughson Chemical Company
Powdered Products Company
Westinghouse Brake & Signal, Ltd.
West Virginia Pulp and Paper Company

1962 Ann. Rpt.

A third training course for industrial hygiene engineers and chemists was conducted in cooperation with the Occupational Health Research and Training Facility of the United States Public Health Service. A concentrated two weeks was devoted to work in the laboratory, lectures and homework assignments. The response was again most satisfying and the course will be repeated in 1963.

On behalf of the staff, I wish to express our deep appreciation for the helpful and encouraging support and the valuable contributions of the Board of Trustees and its Executive Committee, the Technical Committees, and the executive staff of Mellon Institute.

NEW MEMBERS - 1962

E. I. du Pont de Nemours & Company

International Research and Development Corporation

Louisiana Ordnance Plant of Remington Rand
Division, Sperry Rand Corporation

Netherlands du Pont (foreign)

Semiconductor Products Division of Motorola, Inc.

Stauffer Chemical Company

Tamms Industries Company

Western Electric Company

Member companies represented by proxies:

Abrasive Grain Association
Allegheny Pittsburgh Coal Company
Aluminum Company of America
American Air Filter Company, Inc.
American Iron and Steel Institute
American Zinc Institute
Anaconda Company
American Can Company
American Metal Climax, Inc.
American Smelting & Refining Company
American Viscose Div., FMC Corporation
American Zinc, Lead & Smelting Company
Armco Steel Corporation
Atlas Chemical Industries
Ball Brothers Company, Inc.
Boeing Company
Brush Beryllium Company
Butler County Mushroom Farm
Central Silica Company
Robert F. Coleman, Inc.
Cooper-Bessemer Corporation
Davison Chemical Div., W. R. Grace & Company
Deckers Creek Sand Company
Deere & Company
Dow Chemical Company
B. F. Drakenfeld & Co., Inc.
E. I. du Pont de Nemours & Company
Ebasco Services Incorporated
Electric Storage Battery Company
Equitable Life Assurance Society of the U. S.
Ethyl Corporation
Ferro Corporation
Foundry Facings Manufacturers Association
General Electric Company
General Motors Corporation
Glenshaw Glass Company
Grinding Wheel Institute
Hall China Company
Hanley Company
Hazleton Laboratories, Inc.
Hercules Powder Company
Inland Steel Company
International Business Machines Corp.
Johns-Manville Corporation
Jones & Laughlin Steel Corporation

Member companies represented by proxies (continued):

Kaiser Refractories
Kennecott Copper Corporation
Lava Crucible-Refractories Company
Louisiana Ordnance Plant, Remington Office Equipment Div.,
Sperry Rand Corporation
Marbon Chemical Div., Borg-Warner Corporation
J. S. McCormick Company
Minneapolis-Honeywell Regulator Company
Minnesota Mining and Manufacturing Company
Jesse S. Morie & Son, Inc.
National Assoc. of Mutual Casualty Companies
National Crushed Stone Association
National Industrial Sand Association
National Slag Association
Owens-Corning Fiberglas Corporation
Owens-Illinois Glass Company
G. H. Packwood Manufacturing Company
Penn Billton Company
Pennsylvania Manufacturers' Assoc. Casualty Insurance Co.
Phelps Dodge Corporation
Philadelphia Quartz Company
Pipe Fabrication Institute
Pittsburgh Plate Glass Company
Pittsburgh Steel Company
Portland Cement Association
Powdered Products Company
Pullman-Standard
Reaction Motors Div., Thiokol Chemical Corporation
Republic Steel Corporation
Safety First Supply Company
St. Joseph Lead Company
Sandia Corporation
Sauereisen Cements Company
Claude B. Schneble Company
Scott Aviation Corporation
Socony Mobil Oil Company, Inc.
Stauffer Chemical Company
Sugar Beet Products Company
Tennessee Copper Company Division of Tennessee Corporation
Union Carbide Corporation
U. S. Steel Corporation
Wedron Silica Company
Westinghouse Electric Corporation
Whitehead Brothers Company

NEW MEMBERS AND MEMBERS RESIGNED

January 1 - September 30, 1963

New Members

Comalco Aluminium, Ltd.	\$	75.00	
Freeport Division, Nalco Chemical Co.		75.00	
Marbon Chemical Div., Borg Warner Corp.		175.00	
Pipe Fabrication Institute		75.00	
Stiffler Industrial Lubricants Co.		<u>75.00</u>	\$ 475.00

Members Increasing Dues

Ethyl Corporation (from \$100 to \$350)			<u>250.00</u>
			725.00

Members Resigned

Association of American Railroads	\$	50.00	
Autometric, Inc.		100.00	
Bethlehem Steel Co.		1,000.00	
Gustin-Bacon Manufacturing Co.		200.00	
Keasbey & Mattison Co.		150.00	
New Jersey Pulverizing Co.		50.00	
Shenango Furnace Co.		150.00	
Standard Ultramarine & Color Co.		150.00	
Universal Rundle Corp.		<u>100.00</u>	- <u>\$1,950.00</u>

Loss to September 30, 1963 - \$1,225.00

Year	Company	Year	Company
1937	Abrasive Grade Association	1961	Davison Chemical Division
1937	Abrasive Products Company		W. R. Grace & Company
1936	Acme Abrasive Company	1937	Deckers Creek Sand Company
1936	Acme Quality Products, Inc.	1937	A. P. de Sanno & Son, Inc.
1936	Allegheny Ludlum Steel Corp.	1952	Diamond Alkali Company
1940	Allegheny Pittsburgh Coal Co.	1939	Dow Chemical Company
1956	Allied Chemical Corporation	1937	B. F. Drakenfeld & Co., Inc.
1936	Aluminum Company of America	1937	Dravo Corporation
1937	American Abrasive Company	1962	E. I. duPont de Nemours & Co.
1947	American Can Company, Inc.		
1937	American Emery Wheel Works	1963	Edmar Abrasive Company
1944	American Iron and Steel Institute	1943	Electro Refractories & Abrasives Co.
1957	American Metal Climax, Inc.	1945	Eljer Plumbingware Division
1937	American Mining Congress		The Murray Corp. of America
1944	American Optical Company	1956	Equitable Life Assurance Society
1964	American Powder & Chemical Corp.		of the United States
1936	American Smelting & Refining Co.	1937	Ethyl Corporation
1936	American Zinc Institute, Inc.	1937	Exolon Company
1937	American Zinc, Lead & Smelting Co.		
1936	Amescon Company		
1961	Armco Steel Corporation	1949	Ferro Corporation
1936	Association of Casualty & Surety Companies*	1964	FMC Corporation
		1937	Foot Mineral Company
1966	Atlas Chemical Industries, Inc.	1947	Ford Motor Company
1936	Automobile Manufacturers Assn.	1936	Foundry Facings Manufacturers Assn.
		1963	Freeport Division
1964	Ball Brothers Company, Inc.		Nalco Chemical Company
1937	Bartlett-Collins Company	1943	Fuller Merriam Company
1937	Bay State Abrasive Products Co.		
1955	Beryllium Corporation	1943	Garner Machine Company
1961	Bleached Board Division	1956	Geigy-Werke Schweizerhalle A. G.
	West Virginia Pulp and Paper Co.	1937	General Abrasive Company, Inc.
1936	Bueing Company	1947	General Electric Company
1946	Brush Beryllium Company	1937	General Grinding Wheel Corp.
1952	George H. Bullard Company, Inc.	1951	General Mills, Inc.
1936	Bunker Hill Company	1942	General Motors Corporation
1961	Butler County Mushroom Farm, Inc.	1954	Georgia Kaolin Company
		1937	Glenshaw Glass Company, Inc.
1953	Can Manufacturers Institute, Inc.	1937	Grinding Wheel Institute
1937	Carborundum Company	1950	Gulf Oil Corporation
1952	Celanese Corp. of America	1964	Gypsum Association
1937	Central Silica Company		
1937	Chicago Wheel & Manufacturing Co.	1937	Hall China Company
1954	Cincinnati Milling Products Division	1937	Hamilton Emery & Corundum Co.
	Cincinnati Milling Machine Co.	1937	Hampden Grinding Wheel Company
1944	Robert F. Coleman, Inc.	1961	Hanley Company
1951	Colonial Abrasive Products Co.	1959	Hazleton Laboratories
1963	Comalco Aluminum (Bell Bay) Ltd.	1956	Honeywell Inc.
1964	Commonwealth Sealing Company	1961	Hughson Chemical Company
1956	Companhia Siderurgica Nacional	1937	Huntington Alloy Products Division
1936	Consolidation Coal Company, Inc.		International Nickel Company
1953	Continental Can Company, Inc.		
1961	Cooper-Braemar Corporation	1957	Ingersoll-Humphries Division
1955	Corn Products Company		Borg-Warner Corporation
1937	Cortland Grinding Wheels Corporation	1947	Inland Steel Company
1962	Crown Petroleum Corporation	1947	International Business Machines

*Multiple Membership (124 member companies)

1936	Johns-Manville Corporation	1964	Pittsburgh Activated Coal Company
1960	Jones & Laughlin Steel Corp.	1937	Pittsburgh Plate Glass Company
1963	Jewett & Rodgers Company	1955	Pittsburgh Steel Company
1960	Kaiser Refractories Division	1938	Portland Cement Association
	Kaiser Aluminum & Chem. Corp.	1961	Powdered Products Company
1953	Kennecott Copper Corporation	1937	Process Air Division
1942	Koppers Company, Inc.		American Air Filter Company
		1950	Pullman-Standard
1937	Lava Crucible-Refractories Co.	1957	Reaction Motors Division
1964	Leverack & Haines, Inc.		Thiokol Chemical Corporation
1936	Lead Industries Association	1952	Red Hill Grinding Wheel Corp.
1958	London Transport Board	1945	Republic Steel Corporation
1962	Louisiana Ordnance Plant	1937	H. H. Robertson Company
	Remington Rand Division	1956	Robertson Manufacturing Company
	Sperry Rand Corporation		
1937	Macklin Company	1939	Safety First Supply Company
1950	Manhattan Rubber Division	1937	St. Joseph Lead Company
	Raybestos-Manhattan, Inc.	1950	Sandia Corporation
1940	Maryland Self-Insurers' and	1956	Sauereisen Cements Company
	Employers' Compensation Assn.	1937	Claude B. Schneible Company
1937	J. S. McCormick Company	1946	Scott Aviation Corporation
1964	Merck & Co., Inc.	1937	Simonds Abrasive Company
1937	Mid-West Abrasive Company	1937	Simonds Worden White Company
1936	Mine Safety Appliances Company	1956	Soap and Detergent Association
1957	Minnesota Mining & Manufacturing Co.	1949	Socony Mobil Oil Company, Inc.
1956	Jesse S. Moris & Son, Inc.	1941	Standard Lime and Cement Company
		1964	Standard Oil Company (New Jersey)
1945	National Association of Mutual	1962	Stauffer Chemical Company
	Casualty Companies*	1937	Sterling Grinding Wheel Company
1937	National Crushed Stone Assn., Inc.	1963	Stiffler Industrial Lubricants Co.
1947	National Glass Sand Corporation	1953	Sugar Beet Products Company
1937	National Grinding Wheel Co., Inc.		
1937	National Industrial Sand Assn.	1952	Tata Industries Limited
1937	National Lead Company	1946	Taylor, Smith & Taylor Company
1964	National Ready Mixed Concrete Assn.	1946	Tennessee Copper Company
1945	National Sand and Gravel Assn.; Inc.		Division of Tennessee Corp.
1938	National Slag Association	1938	Texas Gulf Sulphur Company
1947	National Steel Corporation	1937	Titan Abrasives Company
1962	Nederland duPont de Nemours N. Y.	1960	Toms River-Cincinnati Chemical
1964	Newport Division		Corporation
	Heyden Newport Chemical Corp.	1936	Union Carbide Corporation
1963	Osborn Manufacturing Company	1936	United States Potters Association
1937	Ottawa Silica Company	1936	United States Steel Corporation
1953	Owens-Corning Fiberglas Corp.		
1936	Owens-Illinois Glass Company	1937	Valley Mould and Iron Corporation
1954	Pacific Grinding Wheel Manufacturing	1960	Van Straaten Chemical Company
1954	G. H. Packwood Manufacturing Co.	1938	Vesuvius Crucible Company
1937	Peninsular Grinding Wheel Division		
	Wakefield Corporation	1937	Waltham Grinding Wheel Company
1937	Pennsylvania Glass Sand Corp.	1937	Washington Mills Abrasive Company
1956	Pennsylvania Manufacturers' Assn.	1937	Wedron Silica Company
	Casualty Insurance Company	1962	Western Electric Company, Inc.
1964	Perkin-Elmer Corporation	1937	Westfield Grinding Wheel Company
1960	Petroleo Brasileiro S. A.	1961	Westinghouse Brake and Signal
1936	Phelps Dodge Corporation		Company, Limited
1951	Philadelphia Quartz Company	1937	Westinghouse Electric Corporation
		1937	Whitehead Brothers Company
		1937	Willson Products Division
			Ray-O-Vac Company
		1937	Youngstown Sheet and Tube Company

* Multiple Membership (27 member companies)

1965 Annual Report

Date Joined	Company	Date Joined	Company
1937	Abrasive Grain Association	1937	Deckers, Cress, and Company
1937	Abrasive Products Company	1937	A. P. deSanto & Sons, Inc.
1956	Aemie Abrasive Company	1952	Diamond Alkali Company
1965	The Air Preheater Company	1939	Dow Chemical Company
1936	Allegheny Ludlum Steel Corp.	1937	B. F. Drakeville & Co., Inc.
1940	Allegheny Pittsburgh Coal Co.	1937	Dravo Corporation
1956	Allied Chemical Corporation	1962	E. I. duPont de Nemours & Co.
1936	Aluminum Company of America		
1937	American Abrasive Company	1963	Edmar Abrasive Company
1947	American Can Company, Inc.	1943	Electro Refractories & Abrasives Co.
1937	American Emery Wheel Works	1945	Eljer Plumbingware Division The Murray Corporation of America
1938	* American Insurance Association	1956	Equitable Life Assurance Society of the United States
1944	American Iron and Steel Institute	1937	Ethyl Corporation
1957	American Metal Climax, Inc.	1937	Exolon Company
1937	American Mining Congress		
1945	* American Mutual Insurance Alliance		
1944	American Optical Company	1949	Ferro Corporation
1964	American Potash & Chemical Corp.	1964	FMC Corporation
1936	American Smelting & Refining Co.	1937	Foots Mineral Company
1936	American Zinc Institute, Inc.	1947	Ford Motor Company
1937	American Zinc, Lead & Smelting Co.	1936	Foundry Facing Manufacturers Assn.
1936	Anaconda Company	1963	Freeport Division Nalco Chemical Company
1961	Armco Steel Corporation	1943	Fuller Merriam Company
1965	Armstrong Paint & Varnish Works, Inc.		
1960	Atlas Chemical Industries, Inc.	1943	Gardner Machine Company
1936	Automobile Manufacturers Assn.	1958	Geigy-Werke Schenckendalle A.G.
		1937	General Abrasive Company, Inc.
1965	Frank Bancroft Company, Inc.	1947	General Electric Company
1937	Bartlett-Collins Company	1937	General Grinding Wheel Corp.
1937	Bay State Abrasive Products Co.	1951	General Mills, Inc.
1955	Beryllium Corporation	1942	General Motors Corporation
1961	Bleached Board Division West Virginia Pulp and Paper Co.	1954	Georgia Kaolin Company
1956	The Boring Company	1937	Glenshaw Glass Company, Inc.
1946	Brush Beryllium Company	1966 **	Milton J. Gordon Company
1952	George H. Bullard Company, Inc.	1937	Grinding Wheel Institute
1936	Bunker Hill Company	1950	Gulf Oil Corporation
1961	Butler County Mushroom Farm, Inc.	1964	Gypsum Association
1953	Can Manufacturers Institute, Inc.	1937	Hall China Company
1937	Carborundum Company	1937	Hamilton Emery & Carborundum Company
1952	Celanese Corporation of America	1937	Hampden Grinding Wheel Company
1937	Central Silica Company	1961	Hanley Company
1937	Chicago Wheel & Manufacturing Co.	1959	Hazleton Laboratories
1966 **	Chrysler Corporation	1956	Honeywell, Inc.
1954	Cincinnati Milling Products Division Cincinnati Milling Machine Co.	1961	Hughson Chemical Company
1944	Robert F. Coleman, Inc.	1937	Huntington Alloy Products Division International Nickel Company
1951	Colonial Abrasive Products Co.		
1965	Comalco Aluminum (Bell Bay) Ltd.	1947	Inland Steel Company
1954	Commonwealth Sanitation Company	1947	International Business Machines Corp.
1958	Companhia Siderurgica Nacional		
1936	Consolidation Coal Company, Inc.	1936	Johns-Manville Corporation
1953	Continental Can Company, Inc.	1960	Jones & Laughlin Steel Corporation
1961	Cooper-Bessemer Corporation	1963	Jowitt & Rodgers Company
1955	Corr Products Company		
1937	Cortland Grinding Wheels Corporation		
1962	Crook Petroleum Corporation	1960	Kaiser Refractories Division Kaiser Aluminum & Chemical Corp.
		1953	Kennecott Copper Corporation
1961	Davison Chemical Division W. A. Grace & Company	1965	Keystone Brass Works, Inc.
		1942	Koppers Company, Inc.

* Multiple membership

** January 1, 1965 member

1937 Lava Crucible-Refractories Company
 1964 Leverack & Haines, Inc.
 1936 Lead Industries Association
 1958 London Transport Board
 1962 Louisiana Ordnance Plant
 Remington Rand Division
 Sperry Rand Corporation
 1937 Macklin Company
 1950 Manhattan Rubber Division
 Raybestos-Manhattan, Inc.
 1966 ** Manufacturing Chemists' Association
 1966 ** Marcona Mining Company
 1940 Maryland Self-Insurers' and
 Employers' Compensation Assn.
 1937 J. S. McCormick Company
 1964 Merck & Company, Inc.
 1937 Mid-West Abrasive Company
 1965 Miles Laboratories, Inc.
 1936 Mine Safety Appliances Company
 1957 Minnesota Mining & Manufacturing Co.
 1956 Jesse S. Morie & Son, Inc.
 1966 ** National Coal Association
 1937 National Crushed Stone Assn., Inc.
 1947 National Glass Sand Corporation
 1937 National Grinding Wheel Company, Inc.
 1937 National Industrial Sand Assn.
 1937 National Lead Company
 1964 National Ready Mixed Concrete Assn.
 1945 National Sand and Gravel Assn., Inc.
 1938 National Slag Association
 1947 National Steel Corporation
 1962 Nederland duPont deNemours N. V.
 1964 Newport Division
 Tenneco Chemicals, Inc.
 1963 Osborn Manufacturing Company
 1937 Ottawa Silica Company
 1953 Owens-Corning Fiberglass Corp.
 1936 Owens-Illinois Glass Company
 1964 Pacific Grinding Wheel Manufacturing
 1954 G. H. Packwood Manufacturing Co.
 1937 Pennular Grinding Wheel Division
 Wakefield Corporation
 1937 Pennsylvania Glass Sand Corporation
 1956 Pennsylvania Manufacturers' Assn.
 Casualty Insurance Company
 1964 Perkin-Elmer Corporation
 1960 Petroleo Brasileiro S. A.
 1936 Phelps Dodge Corporation
 1951 Philadelphia Quartz Company
 1964 Pittsburgh Activated Carbon Company
 1937 Pittsburgh Plate Glass Company
 1955 Pittsburgh Steel Company
 1948 Portland Cement Association
 1961 Powdered Products Company
 1937 Process Air Division
 American Air Filter Company
 1950 Pullman-Standard
 1957 Reaction Motors Division
 Thichol Chemical Corporation

1952 Red Hill Grinding Wheel Corporation
 1945 Republic Steel Corporation
 1937 R. H. Robertson Company
 1956 Robertson Manufacturing Company
 1939 Safety First Supply Company
 1937 St. Joseph Lead Company
 1950 Sandia Corporation
 1956 Sauereisen Cements Company
 1937 Claude B. Schneible Company
 1946 Scott Aviation Corporation
 1937 Simonds Abrasive Company
 1937 Simonds Worden White Company
 1956 Soap and Detergent Association
 1949 Socony Mobil Oil Company, Inc.
 1941 Standard Lime and Cement Company
 1964 Standard Oil Company (New Jersey)
 1962 Stauffer Chemical Company
 1937 Sterling Grinding Wheel Company
 1963 Stiffler Industrial Lubricants Company
 1965 Sturm, Ruger & Company, Inc.
 1953 Sugar Beet Products Company
 1952 Tata Services Limited
 1946 Taylor, Smith & Taylor Company
 1946 Tennessee Copper Company
 Division of Tennessee Corporation
 1938 Texas Gull Sulphur Company
 1937 Titan Abrasives Company
 1960 Toms River Chemical Corporation
 1936 Union Carbide Corporation
 1936 United States Pottery Association
 1936 United States Steel Corporation
 1937 Valley Mould and Iron Corporation
 1960 Van Straaten Chemical Company
 1938 Veevius Crucible Company
 1937 Valtham Grinding Wheel Company
 1937 Washington Mills Abrasive Company
 1937 Wedron Silica Company
 1962 Western Electric Company, Inc.
 1937 Westfield Grinding Wheel Company
 1961 Westinghouse Brake and Signal Co., Ltd.
 1937 Westinghouse Electric Corporation
 1937 Wilson Products Division
 Ray-O-Vac Company
 1937 Youngstown Sheet and Tube Company

1966 Ann. Rpt

I H F MEMBERS

Abrasive Grain Association	A. P. deSanno & Son, Inc.
Abrasive Products Company	Diamond Alkali Company
Acme Abrasive Company	Dow Chemical Company
Air Preheater Company	Dravo Corporation
Alcolac Chemical Corporation	E. I. du Pont de Nemours & Company
Allegheny Ludlum Steel Corporation	Eastman Kodak Company
Allegheny Pittsburgh Coal Company	Edmar Abrasive Company
Allied Chemical Corporation	Electric Storage Battery Company
Aluminum Company of America	Willson Products Division
American Abrasive Company	Electro Refractories & Abrasives Corp.
American Can Company	Equitable Life Assurance Society of the U.S.
American Emery Wheel Works	Ethyl Corporation
*American Insurance Association	Exolon Company
American Iron and Steel Institute	
American Metal Climax, Inc.	Ferro Corporation
American Mining Congress	FMC Corporation
*American Mutual Insurance Alliance	Footo Mineral Company
American Optical Company	Ford Motor Company
American Potash & Chemical Corp.	Foundry Facings Manufacturers Assn.
American Smelting & Refining Co.	Fuller Merriam Company
American Zinc Company	
American Zinc Institute, Inc.	Gardner Machine Company
Anaconda Company	Geigy-Werke Schweizerhalle A. G.
Armco Steel Corporation	General Abrasive Company, Inc.
Armstrong Paint & Varnish Works, Inc.	General Electric Company
Asbestos Textile Institute	General Grinding Wheel Corporation
Atlas Chemical Industries, Inc.	General Mills, Inc.
Automobile Manufacturers Association, Inc.	General Motors Corporation
	Georgia Kaolin Company
Frank Bancroft Company, Inc.	Glenshaw Glass Company, Inc.
Bartlett-Collins Company	M. J. Gordon Company
Bay State Abrasive Products Company	Grinding Wheel Institute
Beryllium Corporation	Gulf Oil Corporation
Blanchard Machine Company	Gypsum Association
Bocing Company	
Buckeye Abrasive, Inc.	Hall China Company
George H. Bullard Company, Inc.	Hamilton Emery & Corundum Company
Bunker Hill Company	Hampden Grinding Wheel Company
Butler County Mushroom Farm, Inc.	Hanford Occupational Health Foundation
	Hanson Company
Can Manufacturers Institute, Inc.	Hazleton Laboratories
Carborundum Company	Hercules, Inc.
Celanese Corporation	Drakenfeld Division
Central Silica Company	Hughson Chemical Company
Chicago Wheel & Manufacturing Co.	
Chrysler Corporation	Inland Steel Company
Cincinnati Milling Machine Company	International Business Machines Corp.
Cincinnati Milling Products Division	International Nickel Company
Robert F. Coleman, Inc.	Huntington Alloy Products Division
Colonial Abrasive Products Company	
Cornalco Aluminum (Bell Bay) Limited	Johns-Manville Corporation
Companhia Siderurgica Nacional	Jones & Laughlin Steel Corporation
Consolidation Coal Company, Inc.	Jowett & Rodgers Company
Continental Can Company, Inc.	
Corn Products Company	Kaiser Aluminum & Chemical Corp.
Cortland Grinding Wheels Corporation	Kaiser Refractories Division
Crook Petroleum Corporation	

* Multiple Membership

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1966 Ann. Rpt.
Kennecott Copper Corporation
Keystone Brass Works, Inc.
Koppers Company, Inc.

Laundry & Cleaners Allied Trades Assn.
Laverack & Haines, Inc.
Lead Industries Association
London Transport Board

Macklin Company
Manufacturing Chemists Assn., Inc.
Marcona Mining Company
Maryland Self-Ins. & Empl. Comp. Assn.
J. S. McCormick Company
Merck and Company, Inc.
Metropolitan Life Insurance Company
Mid-West Abrasive Company
Miles Laboratories, Inc.
Mine Safety Appliances Company
Minnesota Mining & Manufacturing Co.
Mobil Oil Corporation
Jesse S. Morie & Son, Inc.

Nalco Chemical Company
Freeport Division
National Coal Association
National Crushed Stone Association, Inc.
National Glass Sand Corporation
National Grinding Wheel Company, Inc.
National Industrial Sand Association
National Insulation Manufacturers Assn.
National Lead Company
National Sand & Gravel Association, Inc.
National Slag Association
Nederland du Pont de Nemours N. V.

Osborn Manufacturing Company
Ottawa Silica Company
Owens-Corning Fiberglas Corporation
Owens-Illinois Glass Company

Pacific Grinding Wheel Manufacturing Co.
G. H. Packwood Manufacturing Company
Pennsylvania Glass Sand Corporation
Pennsylvania Mfrs' Assn. Ins. Co.
Perkin-Elmer Corporation
Petroleo Brasileiro S. A.
Philadelphia Quartz Company
Pittsburgh Activated Carbon Company
Pittsburgh Plate Glass Company
Pittsburgh Steel Company
H. K. Porter Company, Inc.
Simmons Worcen White Works
Portland Cement Association

Raybestos-Manhattan, Inc.
Manhattan Rubber Division
Red Hill Grinding Wheel Corporation
Republic Steel Corporation
H. H. Robertson Company
Robertson Manufacturing Company

Safety First Supply Company
St. Joseph Lead Company
Sandia Corporation
Sauereisen Cements Company
Simonds Abrasive Company
Sinclair-Koppers Company
Soap and Detergent Association
Sperry Rand Corporation
Louisiana Army Ammunition Plant
Standard Oil Company (New Jersey)
Stauffer Chemical Company
Sterling Grinding Wheel Company
Sturm, Ruger & Company, Inc.
Sugar Beet Products Company

Tata Services Limited
Tennessee Copper Company
Texas Gulf Sulphur Company
Thiokol Chemical Corporation
Reaction Motors Division
Titan Abrasives Company
Toms River Chemical Corporation

Union Carbide Corporation
United States Potters Association
United States Steel Corporation

Valley Mould and Iron Corporation
Van Straaten Chemical Company
Vesuvius Crucible Company

Wakefield Corporation
Peninsular Grinding Wheel Division
Waltham Grinding Wheel Company
Washington Mills Abrasive Company
Wedron Silica Company
Western Electric Company, Inc.
Westfield Grinding Wheel Company
Westinghouse Brake and Signal Company, Ltd.
Westinghouse Electric Corporation
West Virginia Pulp and Paper Company
Bleached Board Division

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1 H F MEMBERS

Abrasive Grain Association
 Abrasive Products Company
 Acme Abrasive Company
 Air Preheater Company
 Alcolac Chemical Corporation
 Allegheny Ludlum Steel Corporation
 Allegheny Pittsburgh Coal Company
 Allied Chemical Corporation
 Aluminum Company of America
 American Abrasive Company
 American Can Company
 American Emery Wheel Works
 * American Insurance Association
 American Iron and Steel Institute
 American Metal Climax, Inc.
 American Mining Congress
 * American Mutual Insurance Alliance
 American Optical Company
 American Petroleum Institute
 American Potash & Chemical Corp.
 American Smelting & Refining Co.
 American Welding & Manufacturing Co.
 American Zinc Company
 American Zinc Institute, Inc.
 Anaconda Company
 Armco Steel Corporation
 Armstrong Paint & Varnish Works, Inc.
 Asbestos Textile Institute
 Atlas Chemical Industries, Inc.
 Automobile Manufacturers Association, Inc.
 Avco Bay State Abrasives Division

Frank Bancroft Company, Inc.
 Beryllium Corporation
 Blanchard Machine Company
 Boeing Company
 Brush Beryllium Company
 Buckeye Abrasive, Inc.
 George H. Bullard Company
 Bunker Hill Company
 Butler County Mushroom Farm, Inc.

Calgon Corporation
 Packwood Manufacturing Co.
 Pittsburgh Activated Carbon Co.
 Can Manufacturers Institute, Inc.
 Carborundum Company
 Celanese Corporation
 Central Silica Company
 Chayes Dental Instrument Corp.
 Chicago Wheel & Manufacturing Co.
 Chrysler Corporation
 Cincinnati Milling Machine Co.
 Cincinnati Milling Products Division
 Robert F. Coleman, Inc.
 Colonial Abrasive Products Co.
 Conalco Aluminium (Roll Bay) Limited
 Companhia Siderurgica Nacional

Consolidation Coal Company, Inc.
 Continental Can Company, Inc.
 Corn Products Company
 Cortland Grinding Wheels Corporation
 Creole Petroleum Corporation

A. P. deSanne & Son, Inc.
 Diamond Alkali Company
 Dow Chemical Company
 Dravo Corporation
 E. I. du Pont de Nemours & Company
 Eastman Kodak Company
 Edmar Abrasive Company
 Electric Storage Battery Company
 Willson Products Division
 Electro Refractories & Abrasives Corp.
 Equitable Life Assurance Society of the U.S.
 Ethyl Corporation
 Exolon Company

Ferro Corporation
 FMC Corporation
 FMR Corporation
 Foote Mineral Company
 Ford Motor Company
 Foundry Facings Manufacturers Group

Gardner Machine Company
 Geigy-Werke Schweizerhalle A.G.
 General Abrasive Company, Inc.
 General Electric Company
 General Grinding Wheel Corporation
 General Mills, Inc.
 General Motors Corporation
 Georgia Kaolin Company
 Glenshaw Glass Company, Inc.
 Goodyear Tire & Rubber Company
 Grinding Wheel Institute
 Gulf Oil Corporation
 Gypsum Association

Hall China Company
 Hamilton Emery & Corundum Company
 Hampden Grinding Wheel Company
 Hanford Occupational Health Foundation
 Hanson Company
 Hazleton Laboratories
 Hercules, Inc.
 Drakenfeld Division
 Hushon Chemical Company

Inland Steel Company
 International Business Machines Corp.
 International Nickel Company, Inc.
 Huntington Alloy Products Division
 ITT Abrasive Products Company

* Multiple Membership

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Johns-Manville Corporation
Jones & Laughlin Steel Corporation
Jowitt & Rodgers Company

Kasco Abrasives, Inc.
Kennecott Copper Corporation
Keystone Brass Works, Inc.
Koppers Company, Inc.

Laundry & Cleaners Allied Trades Assn.
Laverack & Haines, Inc.
Lead Industries Association
London Transport Board

Macklin Abrasives Company
Manufacturing Chemists Assn., Inc.
Marcona Mining Company
Maryland Self-Ins. & Empl. Comp. Assn.
J. S. McCormick Company
Merck and Company, Inc.
Metropolitan Life Insurance Company
Mid-West Abrasive Company
Miles Laboratories, Inc.
Mine Safety Appliances Company
Mobil Oil Corporation
Jesse S. Morie & Son, Inc.

Nalco Chemical Company
Freeport Division
National Coal Association
National Crushed Stone Association, Inc.
National Glass Sand Corporation
National Grinding Wheel Company, Inc.
National Industrial Sand Association
National Insulation Manufacturers Assn.
National Lead Company
National Sand & Gravel Association, Inc.
National Slag Association
Nederland du Pont de Nemours N. V.
Norton Company

Osborn Manufacturing Company
Ottawa Silica Company
Owens-Corning Fiberglass Corporation
Owens-Illinois, Inc.

Pacific Grinding Wheel Manufacturing Co.
Pennsylvania Glass Sand Corporation
Pennsylvania Mfrs. Assn. Inc. Co.
Perkin-Elmer Corporation
Petrobras/RPBC
Portland Cement Association
PPG Industries
Precision Grinding Wheel Co., Inc.

Raybestos-Manhattan, Inc.
Manhattan Rubber Division
Red Hill Grinding Wheel Corporation
Republic Steel Corporation
H. H. Robertson Company

Safety First Supply Company
St. Joseph Lead Company
Sandia Corporation
Sauerisen Cements Company
Sinclair-Koppers Company
Soap and Detergent Association
Sperry Rand Corporation
Louisiana Army Ammunition Plant
Standard Oil Company (Indiana)
Standard Oil Company (New Jersey)
Stauffer Chemical Company
Sturm, Ruger & Company, Inc.
Sugar Beet Products Company

Tata Services Limited
Tennessee Copper Company
Texas Gulf Sulphur Company
Thiokol Chemical Corporation
Reaction Motors Division
Toms River Chemical Corporation

Union Carbide Corporation
United States Pottery Association
United States Steel Corporation

Valley Mould and Iron Corporation
Van Straaten Chemical Company
Vesuvius Crucible Company

Wallace-Murray Corporation
Simonds Abrasive Division
Waltham Grinding Wheel Company
Washington Mills Abrasive Company
Weirton Silica Company
Western Electric Company, Inc.
Westfield Grinding Wheel Company
Westinghouse Air Brake Division
Westinghouse Air Brake Company
Westinghouse Brake and Signal Company, Ltd.
Westinghouse Electric Corporation
West Virginia Pulp and Paper Company
Bleached Board Division

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Date Joined	Company	Date Joined	Company
1937	Abrasive Grain Association	1953	Continental Can Company, Inc.
1937	Abrasive Products Company	1968	Continental Insurance Companies
1956	Acme Abrasive Company	1955	Corn Products Company
1965	The Air Preheater Company	1937	Cortland Grinding Wheels Corp.
1936	Allegheny Ludlum Steel Corp.	1962	Creole Petroleum Corporation
1940	Allegheny Pittsburgh Coal Co.		
1936	Aluminum Company of America	1937	A. P. deSanno & Son, Inc.
1969	**Aluminum Co. of Canada (Alcan)	1952	Diamond Shamrock Corporation
1937	American Abrasive Company	1968	DL Skin Care Products, Inc.
1947	American Can Company, Inc.	1939	Dow Chemical Company
1937	American Emery Wheel Works	1937	Dravo Corporation
1938	*American Insurance Association	1962	E. I. du Pont de Nemours & Co.
1944	American Iron and Steel Institute		
1957	American Metal Climax, Inc.	1966	Eastman Kodak Company
1937	American Mining Congress	1963	Edmar Abrasive Company
1945	*American Mutual Insurance Alliance	1943	Electro Refractories & Abrasives
1944	American Optical Company	1956	Equitable Life Assurance Society of the United States
1967	American Petroleum Institute		
1964	American Potash & Chemical Corp.	1937	Ethyl Corporation
1936	American Smelting & Refining Co.	1937	Exolon Company
1967	American Welding & Manufacturing Co.		
1937	American Zinc Company	1949	Ferro Corporation
1936	Anaconda Company	1964	FMC Corporation
1961	Armco Steel Corporation	1967	FMR Corporation
1965	Armstrong Paint & Varnish Works, Inc.	1937	Foot Mineral Company
1966	Asbestos Textile Institute	1947	Ford Motor Company
1947	Atlas Chemical Industries, Inc.	1956	Foundry Facing Manufacturers Assn.
1968	Auto-Flo Company	1969	**Frantz, McConnell & Seymour
1936	Automobile Manufacturers Assn.		
1937	Avco Bay State Abrasives Division	1943	Gardner Machine Company
		1958	Geigy-Werke Schweizerhalle A.G.
1965	Frank Bancroft Company, Inc.	1937	General Abrasive Company, Inc.
1955	Beryllium Corporation	1947	General Electric Company
1968	Bituminous Coal Operators' Assn.	1937	General Grinding Wheel Corp.
1967	Blanchard Machine Company	1951	General Mills, Inc.
1956	The Boeing Company	1942	General Motors Corporation
1944	Brush Beryllium Company	1954	Georgia Kaolin Company
1967	Buckeye Abrasive, Inc.	1968	Glass Container Manufacturers Institute, Inc.
1952	George H. Bullard Company, Inc.		
1936	Bunker Hill Company	1937	Glenshaw Glass Company, Inc.
1961	Butler County Mushroom Farm, Inc.	1967	Goodyear Tire & Rubber Company
		1937	Grinding Wheel Institute
1953	Can Manufacturers Institute, Inc.	1959	Gulf Oil Corporation
1937	Carborundum Company		
1952	Celanese Corporation	1936	Hall China Company
1937	Central Silica Company	1937	Hamilton Emery & Corundum Company
1968	Certain-teed Products Corporation Gustin-Bacon Division	1937	Hampden Grinding Wheel Company
1967	Chayes Dental Instrument Company	1966	Hanford Occupational Health Foundation
1937	Chicago Wheel & Manufacturing Co.	1967	Hanson Company
1966	Chrysler Corporation	1959	Hazleton Laboratories
1954	Cincinnati Milling Machine Co. Cincinnati Milling Products Div.	1917	Hercules, Inc. Drakenfield Division
1944	Robert F. Coleman, Inc.		
1951	Colonial Abrasive Products Co.	1947	Inland Steel Company
1963	Comalco Aluminum (Bell Bay) Ltd.	1947	International Business Machines Corp.
1958	Companhia Siderurgica Nacional	1966	International Nickel Company, Inc.
1936	Consolidation Coal Company, Inc.		Huntington Alloy Products Division

*Multiple membership

**January 1, 1969 member

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Date Joined	Company	Date Joined	Company
1967	ITT Abrasive Products Co.	1967	Precision Grinding Wheel Company, Inc.
1936	Johns-Manville Corporation	1968	Raybestos-Manhattan, Inc.
1936	Jones & Laughlin Steel Corp.		Manhattan Rubber Division
1963	Jowitt & Rodgers Company	1952	Red Hill Grinding Wheel Corporation
		1937	H. H. Robertson Company
1967	Kasco Abrasives, Inc.		
1953	Kennecott Copper Corporation	1937	St. Joseph Lead Company
1965	Keystone Brass Works, Inc.	1956	Sauereisen Cements Company
1942	Koppers Company, Inc.	1966	Sinclair-Koppers Company
		1956	Soap and Detergent Association
1968	Homer Laughlin China Company	1962	Sperry Rand Corporation
1966	Laundry and Cleaners Allied Trades Association		Louisiana Army Ammunition Plant
1964	Laverack & Haines, Inc.	1968	Sprayed Mineral Fiber Manufacturers Association, Inc.
1936	Lead Industries Association	1967	Standard Oil Company (Indiana)
1958	London Transport Board	1964	Standard Oil Company (New Jersey)
1961	Lord Corporation	1965	Sturm, Ruger & Company, Inc.
	Hughson Chemical Co. Div.	1953	Sugar Beet Products Company
		1968	SysteMed Corporation
1937	J. S. McCormick Company		
1937	Macklin Company	1945	Tata Services Limited
1966	Manufacturing Chemists' Assn.	1946	Tennessee Copper Company
1966	Marcona Mining Company		Div. of Tennessee Corporation
1949	Metropolitan Life Insurance Co.	1938	Texas Gulf Sulphur Company
1937	Mid-West Abrasive Company	1960	Toms River Chemical Corporation
1968	Midwestern Coating Corporation		
1936	Mine Safety Appliances Company	1936	Union Carbide Corporation
1968	Mobay Chemical Company	1936	United States Potters Association
1966	Mobil Oil Corporation	1936	United States Steel Corporation
1956	Jesse S. Morie & Son, Inc.		
		1937	Valley Mould and Iron Corporation
1963	Nalco Chemical Company	1960	Van Straaten Chemical Company
	Freeport Division	1936	Vesuvius Crucible Company
1966	National Coal Association		
1937	National Crushed Stone Assn., Inc.	1967	Wallace-Murray Corporation
1947	National Glass Sand Corporation		Simonds Abrasive Division
1937	National Grinding Wheel Co., Inc.	1937	Waltham Grinding Wheel Company
1937	National Industrial Sand Assn.	1937	Washington Mills Abrasive Company
1966	National Insulation Manufacturers Association	1937	Wedron Silica Company
		1962	Western Electric Company, Inc.
1937	National Lead Company	1937	Westfield Grinding Wheel Company
1945	National Sand and Gravel Assn., Inc.	1967	Westinghouse Air Brake Company
1938	National Slag Association		Westinghouse Air Brake Division
1962	Nederland duPont de Nemours N. V.	1961	Westinghouse Brake and Signal Co., Ltd.
1967	Norton Company	1937	Westinghouse Electric Corporation
	Grinding Wheel Division	1968	Arthur C. Withrow Company
1963	Osborn Manufacturing Company	1936	Zinc Institute, Inc.
1953	Owens-Corning Fiberglass Corp.		
1936	Owens-Illinois, Inc.		
1954	Pacific Grinding Wheel Mfg. Co.		
1937	Pennsylvania Glass Sand Corporation		
1956	Pennsylvania Manufacturers' Assn. Insurance Company		
1960	Petrobras/RPBC		
1964	Pittsburgh Activated Carbon Co. Div. of Calgon Corporation		
1938	Portland Cement Association		
1937	PPG Industries		

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MEMBERS

Date Joined	Company
1937	Abrasive Grain Association
1970	Abrasive Materials Division Norton Company
1937	Abrasive Products Company
1970	Abrasives Division Bendix Corporation
1956	Acme Abrasive Company
1936	Allegheny Ludlum Steel Corp.
1956	Allied Chemical Corporation
1970	Allison Campbell Division American Chain & Cable Co., Inc.
1936	Aluminum Company of America
1969	Aluminum Co. of Canada (Alcan)
1947	American Can Company, Inc.
1937	American Emery Wheel Works
1936	American Insurance Association
1944	American Iron and Steel Institute
1957	American Metal Climax, Inc.
1937	American Mining Congress
1945	American Mutual Insurance Alliance
1944	American Optical Company
1967	American Petroleum Institute
1964	American Potash & Chemical Corp.
1936	American Smelting & Refining Co.
1959	American Standard, Inc.
1959	American Textile Mfrs. Institute
1936	Anaconda Company
1961	Armco Steel Corporation
1965	Armstrong Chemoon, Inc.
1969	Asbestos Cement Products Assn.
1956	Asbestos Textile Institute
1970	Atlantic Abrasive Corporation
1947	Atlas Chemical Industries, Inc.
1968	Auto-Fix Company Division of Masco Corporation
1936	Automobile Manufacturers Assn.
1937	Avco Bay State Abrasives Division
1970	The Bannison Company
1965	Frank Bannison Company, Inc.
1968	Bituminous Coal Operators' Assn.
1956	The Boeing Company
1970	Borden, Inc.
1970	Brockway Glass Company, Inc.
1944	Brush Beryllium Company
1967	Buckeye Abrasive, Inc.
1952	George H. Bullard Company, Inc.
1961	Butler County Mushroom Farm, Inc.
1953	Can Manufacturers Institute, Inc.
1937	Carborundum Company
1952	Celanese Corporation
1937	Central Silica Company
1957	Chayes Abrasives Division
	Chayes Dental Instrument Co.
1937	Chicago Wheel & Manufacturing Co.
1954	Cincinnati Milling Products Div. Cincinnati Milling Machine Co.
1944	Robert F. Coleman, Inc.
1951	Colonial Abrasive Products Co.
1953	Comarco Aluminum (Bell) Bay, Ltd.
1958	Compania Siderurgica Nacional
1956	Consolidated Coal Company, Inc.
1953	Continental Can Company, Inc.
1956	Continental Insurance Companies
1937	Cortland Division American Abrasive Corporation
1955	CPC International
1952	Creole Petroleum Corporation
1937	A. P. deSanto & Son, Inc.
1952	Diamond Shamrock Corporation
1955	DL Skin Care Products, Inc.
1939	Dow Chemical Corporation
1937	Drakenfeld Division Hercules, Inc.

Date Joined	Company
1937	Dravo Corporation
1962	E. I. du Pont de Nemours & Co.
1966	Eastman Kodak Company
1963	Edmar Abrasive Company
1943	Electro Refractories & Abrasives Division of Ferro Corporation
1969	Environmental Sciences, Inc.
1956	Equitable Life Assurance Society of the United States
1937	Ethyl Corporation
1937	Exolon Company
1949	Ferro Corporation
1964	FMC Corporation
1967	FMR Corporation
1937	Footle Mineral Company
1947	Ford Motor Company
1969	Fostoria Glass Company
1936	Foundry Supply Manufacturers' Group
1969	Frantz, McConnell & Seymour
1963	Freeport Division Nalco Chemical Company
1943	Gardner Machine Company
1958	Geigy-Werke Schweizerhalle A. G.
1937	General Abrasive Company
1968	General Asbestos & Rubber Div. Raybestos-Manhattan, Inc.
1970	General Dynamics Corporation
1947	General Electric Company
1937	General Grinding Wheel Corp.
1951	General Mills, Inc.
1942	General Motors Corporation
1954	Georgia Kaolin Company
1968	Glass Containers Mfrs. Institute, Inc.
1937	Glenshaw Glass Company, Inc.
1967	Goodyear Tire & Rubber Company
1967	Grinding Wheel Division Norton Company
1937	Grinding Wheel Institute
1950	Gulf Oil Corporation
1968	Gustin-Bacon Division Certain-teed Products Corp.
1936	Hall China Company
1937	Hamilton Division American Abrasive Corporation
1966	Hanford Environmental Health Fdn.
1967	Hanson Company
1959	Hazleton Laboratories
1961	Hughson Chemical Company Division of Lord Corporation
1937	Huntington Alloy Products Division International Nickel Co., Inc.
1947	Inland Steel Company
1947	International Business Machines Corp.
1967	ITT Abrasive Products Company
1936	Johns-Manville Corporation
1939	Jones & Laughlin Steel Corp.
1963	Jowitt & Rodgers Company
1967	Kasco Abrasives, Inc.
1955	Kawecky Beryllco Industries, Inc.
1946	Kennecott Copper Corporation
1942	Koppers Company, Inc.
1970	Laclede Steel Company
1968	Homer Laughlin China Company
1964	Laverack & Haines, Inc.
1936	Lead Industries Association
1958	London Transport Board
1952	Louisiana Army Ammunition Plant Sperry Rand Corporation
1937	J. S. McCormick Company
1946	Manhattan Rubber Division Raybestos-Manhattan, Inc.
1966	Manufacturing Chemists Assn., Inc.
1956	Marcona Mining Company
1945	Metropolitan Life Insurance Co.

Date Joined	Company
1968	Midwestern Coating Corporation
1936	Mine Safety Appliances Company
1949	Mobil Oil Corporation
1956	Jesse S. Morie & Son, Inc.
1966	National Coal Association
1937	National Crushed Stone Assn., Inc.
1969	National Forge Company
1947	National Glass Sand Corporation
1937	National Grinding Wheel Division Federal-Mogul Corporation
1937	National Industrial Sand Assn.
1966	National Insulation Mfrs. Assn.
1937	National Lead Company
1945	National Sand & Gravel Assn., Inc.
1938	National Slag Association
1962	Nederland du Pont de Nemours N. V.
1963	Osborn Manufacturing Company
1953	Owens-Corning Fiberglas Corp.
1936	Owens-Illinois, Inc.
1954	Pacific Grinding Wheel Company, Inc.
1937	Pennsylvania Glass Sand Corp.
1956	Pennsylvania Manufacturers' Assn. Insurance Company
1960	Petrobras/RPBC
1964	Pittsburgh Activated Carbon Div. Calgon Corporation
1970	Pneumafil Corporation
1938	Portland Cement Association
1937	PPG Industries
1967	Precision Grinding Wheel Co., Inc.
1952	Red Hill Grinding Wheel Corp.
1970	Rex-Cut Products Company Division of Clevepak Corp.
1937	H. H. Robertson Company
1969	Rome Division Revere Copper and Brass, Inc.
1937	St. Joseph Lead Company
1956	Sauereisen Cements Company
1967	Simonds Abrasive Division Wallace-Murray Corporation
1966	Sinclair-Koppers Company
1956	Soap and Detergent Association
1968	Sprayed Mineral Fiber Mfrs. Assn., Inc.
1964	Standard Oil Company (New Jersey)
1962	Stauffer Chemical Company
1965	Sturm, Ruger & Company, Inc.
1953	Sugar Beet Products Company
1968	Systemed Corporation
1945	Tata Services Limited
1969	Tenneco, Inc.
1946	Tennessee Copper Company Div. of Tennessee Corporation
1938	Texas Gulf Sulphur Company
1960	Toms River Chemical Corporation
1970	Travelers Insurance Companies
1936	Union Carbide Corporation
1968	United States Asbestos Division Raybestos-Manhattan, Inc.
1936	United States Pottery Association
1935	United States Steel Corporation
1960	Van Straaten Chemical Company
1938	Vesuvius Crucible Company
1937	Waltham/Hampden Grinding Wheel Co.
1937	Washington Mills Abrasive Co.
1937	Wedron Silica Company
1962	Western Electric Company, Inc.
1937	Westfield Grinding Wheel Co.
1937	Westinghouse Electric Corporation
1968	Arthur C. Withrow Company
1936	Zinc Institute, Inc.

* Multiple membership

MEMBERS

Date Joined	Company	Date Joined	Company	Date Joined	Company
1937	*Abrasive Grain Association	1937	A. P. deSanno & Son, Inc.	1970	Medical Supply Company
1970	Abrasive Materials Division Norton Company	1952	Diamond Shamrock Corporation	1970	Metal Lathes Corporation
1937	Abrasive Products Company	1949	Dow Chemical Corporation	1969	Metropolitan Life Insurance Company
1970	Abrasives Division Bendix Corporation	1937	Drakenfeld Division, Hercules, Inc.	1957	Michael Abrasive Company
1956	Acme Abrasive Company	1937	Dravo Corporation		Grinding Wheel Division
1971	Adamas Carbide Corporation	1962	E. I. du Pont de Nemours & Co.	1958	Midwestern Carbide Corporation
1956	Allesbony Ludlum Steel Corporation	1966	Eastman Kodak Company	1956	Mini Safety Appliances Company
1956	Allied Chemical Corporation	1963	Edmar Abrasive Company	1969	Motor Corporation
1970	Allison Campbell Division American Chain & Cable Co., Inc.	1943	Electro Refractories & Abrasives Division of Ferro Corporation	1956	Jesse S. Morris & Sons, Inc.
1936	Aluminum Company of America	1969	Environmental Sciences, Inc.	1971	Muller, Meyer, Inc.
1969	Aluminum Company of Canada Ltd.	1956	Equitable Life Assurance Society of the United States	1971	National Association of Manufacturers
1971	American Apparel Manufacturers Assn.			1968	National Car Association
1947	American Can Company	1937	Ethyl Corporation	1957	National Grinding Wheel Division Federal-Mogul Corporation
1958	*American Insurance Association	1937	Exxon Company	1957	National Industrial Sales Association
1944	American Iron and Steel Institute	1967	FMC Corporation	1966	National Industrial Sales Association
1957	American Metal Climax, Inc.	1949	Ferro Corporation	1957	National Lead Company
1937	American Mining Congress	1971	Firth Sterling, A Teledyne Company	1958	National Sales Association
1945	*American Mutual Insurance Alliance	1937	Foxe Mineral Company	1962	Neoprene Products, Inc.
1944	American Optical Corporation	1947	Ford Motor Company	1971	Newport Products, Inc.
1967	American Petroleum Institute	1936	Foundry Supply Manufacturers' Group	1953	Oberlin Manufacturing Company
1946	American Smelting & Refining Company	1963	Freemont Division Nalco Chemical Company	1953	Owens Corning Fibers Corporation
1969	American Standard, Inc.	1943	Gardner Machine Company	1956	Owens-Illinois, Inc.
1969	American Textile Mfrs. Institute	1937	General Abrasive Company	1957	PTG Industries, Inc.
1936	Anaconda Company	1968	General Asbestos & Rubber Division Raybestos-Manhattan, Inc.	1951	Reich Grindings Wheel Company, Inc.
1970	Anko American Corp. of South Africa Ltd.	1970	General Cigar Company	1971	Pennsylvania Glass Sand Corporation
1970	Aspenair Insurance Company	1970	General Dynamics Corporation	1970	Pinebush Corporation
1965	Armstrong Chemcon, Inc.	1947	General Electric Company	1948	Portland Cement Association
1969	Asbestos Cement Products Association	1937	General Grinding Wheel Corporation	1970	Porter Brothers, Inc.
1970	Asbestospray Corporation	1951	General Mills, Inc.	1967	Precision Grinding Wheel Co., Inc.
1966	Asbestos Textile Institute	1942	General Motors Corporation	1952	Ree-Hill Grinding Wheel Corporation
1970	Atlantic Abrasive Corporation	1954	Georgia Kaolin Company	1970	Ree-Hill Products Corporation Division of General Electric Corporation
1947	Arias Chemical Industries, Inc.	1968	Glass Containers Mfrs. Institute, Inc.	1937	H. E. Richardson Company
1968	Auto-Flo Company	1937	Gleason Glass Company, Inc.	1957	St. Joe Minerals Corporation
	Division of Masco Corporation	1967	Goodyear Tire & Rubber Company	1971	Scholar Steel, Inc.
1946	Automobile Manufacturers Association	1967	Grinding Wheel Division Norton Company	1956	Saunders Chemicals Company
1947	Avco Bay State Abrasives Division	1937	*Grinding Wheel Institute	1971	Spectrum Technology Development Assn.
1970	The Bahnsen Company	1950	Gulf Oil Corporation	1967	Simmons Abrasive Division Wheeler Metallurgical Corporation
1965	Frank Bancroft Company, Inc.	1968	Gustin Bacon Division Certain-teed Products Corporation	1966	Simmons Abrasive Division
1956	The Beine Company	1936	Hall China Company	1956	Soar and Dierbeck Association
1970	Borden, Inc.	1937	Harrison Division American Abrasive Corporation	1964	Spayed Mineral, Freeport, N.Y. Assn., Inc.
1971	Brighton Industrial Division Weldon Roberts Rubber Company	1966	Hanford Environmental Health Fdn.	1964	Standard Oil Company, New Jersey
1944	Brush Beryllium Company	1967	Hanson Company	1962	Stauffer Chemical Company
1967	Buckeye Abrasive, Inc.	1937	Huntington Alkyl Products Division International Nickel Company, Inc.	1965	Stearns Rubber Company, Inc.
1952	George H. Bullard Company, Inc.	1971	Hydro Carbide Corporation	1955	Sugar Beet Products Company
1961	Butler County Mushroom Farm, Inc.	1947	Inland Steel Company	1968	SveMed Corporation
1955	C.P.C. International	1970	International Business Machines Corp.	1959	T.W. Swanton Laboratories
1955	Can Manufacturers Institute, Inc.	1967	ITT Abrasive Products Company	1945	Tate Service Limited
1971	Carbide Division, Howmet Corp.	1936	Johns-Manville Corporation	1969	Tenneco, Inc.
1937	Carborundum Company	1939	Jones & Laughlin Steel Corporation	1938	Texas Grit, Schuler Company
1971	Caromet Company	1963	Jowett & Rodgers Company	1960	Texas River Chemical Corporation
1952	Celanese Corporation	1967	Kasco Abrasives Coleman Systems Company	1970	Travelers Insurance Companies
1971	Cemented Carbide Producers Assn.	1955	Kawco Beryllco Industries, Inc.	1971	Tunester Alloy Mfg. Co., Inc.
1947	Central Silica Company	1946	Kennecott Copper Corporation	1956	Union Carbide Corporation
1967	Chaves Abrasives Division Chaves Dental Instrument Co.	1942	Koppers Company, Inc.	1970	United States Metals Products Co.
1947	Chicago Wheel & Manufacturing Co.	1970	Lacoste Steel Company	1946	United States Steel Corporation
1958	Ciba Geigy AG	1968	Home Laughlin China Company	1960	United States Steel Corporation
1954	Cincinnati Milacron, Inc. Products Division	1964	Leverette & Haines, Inc.	1948	Van Driessche Chemical Company
1944	Robert F. Coleman, Inc.	1936	Lead Industries Association, Inc.	1971	V.E. Wilson Company
1951	Colonial Abrasive Products Company	1958	London Transport Executive	1947	Walker Chemicals
1958	Companhia Siderurgica Nacional	1962	Louisiana Army Ammunition Plant Spartan Rand Corporation	1947	Walker Industrial Grinding Wheel Co.
1947	Consolidation Coal Company, Inc.	1937	J. S. McCormick Company	1947	Washington Mill Abrasive Company
1955	Continental Can Company, Inc.	1946	Manhattan Rubber Division Raybestos-Manhattan, Inc.	1947	Western Steel Company
1958	Continental Insurance Companies	1966	Manufacturing Chemists Association	1971	Western Steel Company
1946	Copperhill Operations Div. of Carter Service Company	1966	Marcon Mining Company	1945	Zinc Institute, Inc.
1947	Cortland Division American Abrasive Corporation				
1970	Crescent Petroleum Corporation				

* Multiple membership

† Group membership

NEW MEMBERS -- 1971

American Apparel Manufacturer's Association
American Foundrymen's Society
American Steel Foundries
Argonaut Insurance Company
Asbestospray Corporation
Cemented Carbide Products Association
Chemico Metals Corp.
General Cigar Company
International Lead Zinc Research Organization
National Association of Manufacturers
Selenium-Tellurium Development Association, Inc.
Teledyne Brown Engineering

-- from Minutes of the Board of Trustees Meetings

March 9 & October 11, 1971

NEW MEMBERS -- 1972

Buhl Optical Company
Chicopee Manufacturing Company
Columbia Gas System Service Corporation
Consolidated Natural Gas Service Co.,
and Peoples Natural Gas Company
Industrial Bio-Test Laboratories, Inc.
Lee-Norse Company
Miles Laboratories
Organization Resources Counselors, Inc.
Safety First Industries, Inc.
Shell Oil Company
Tri-State Engineering Company

-- from Minutes of the Board of Trustees Meetings

February 8, May 9, and October 9, 1972

1972 NEW MEMBERS

Date Joined	Company	Date Joined	Company
1937	*Abrasive Grains Association	1952	Celanese Corporation
1936	All-Aluminum Industries, Inc.	1971	*Cemented Carbide Producers Association
1956	Allied Chemical Corporation	1968	Certain-Teed Baint Gbala Insulation Corp.
1936	Aluminum Company of America	1972	Chicopee Manufacturing Company
1969	Aluminum Company of Canada, Ltd.	1958	Ciba-Geigy AG
1947	American Can Company	1972	Columbia Gas System Service Corporation
1971	American Foundrymen's Society	1958	Companhia Siderurgica Nacional
1938	*American Insurance Association	1973	Consolidated Edison Company of N.Y., Inc.
1944	American Iron and Steel Institute	1972	Consolidated Natural Gas Service Company
1957	American Metal Climax, Inc.	1936	Consolidation Coal Company, Inc.
1937	American Mining Congress	1953	Continental Can Company, Inc.
1945	*American Mutual Insurance Alliance	1962	Creole Petroleum Corporation
1944	American Optical Corporation		
1967	American Petroleum Institute	1952	Diamond Shamrock Corporation
1936	American Smelting & Refining Company	1973	Dow Chemical U.S.A.
1969	American Textile Mfrs. Institute, Inc.	1937	Drakenfeld Division Hercules, Inc.
1970	Argonaut Insurance Company	1937	Dravo Corporation, Manufacturing Group
1973	Asbestospry Corporation		
1970	The Bahnsen Company	1936	E. I. du Pont de Nemours & Company
1970	Brockway Glass Company, Inc.	1966	Eastman Kodak Company
1944	Brush Wellman, Inc.	1973	Minerals & Chemical Division
1972	Buhl Optical Company	1973	Engelhard Minerals and Chemical Corp.
1961	Butler County Mushroom Farm, Inc.	1956	Environmental Shields Services, Inc.
			Equitable Life Assurance Society of the
1955	CPC International, Inc.		United States
1953	Can Manufacturers Institute, Inc.	1964	Exxon Corporation

*Multiple Membership

10.

1973

Date
Joined

Company

Date
Joined

Company

1973 Falcon Foundry Company
1949 Ferro Corporation
1947 Ford Motor Company
1936 Foundry Supply Manufacturers Group

1955 Kaweckl Beryleo Industries, Inc.
1973 Keystone Metal Company
1942 Koppers Company, Inc.

1968 General Asbestos & Rubber Division,
Raybestos-Manhattan, Inc.
1970 General Cigar Company, Inc.
1947 General Electric Company
1951 General Mills, Inc.
1942 General Motors Corporation
1954 Georgia Kaolin Company
1937 Glenshaw Glass Company, Inc.
1937 *Grinding Wheel Institute
1950 Gulf Oil Corporation

1970 Laclede Steel Company
1968 Homer Laughlin China Company
1972 Lee-Norse Company
1962 Louisiana Army Ammunition Plant,
Sperry Rand Corporation

1936 Hall China Company
1972 Heinz U.S.A. (Div. of H.J. Heinz Co.)
1973 Howell Industrial Clinic
1937 Huntingdon Alloy Products Division,
International Nickel Co., Inc.

1937 J. S. McCormick Company
1966 Marcona Mining Company
1970 Marlon Health and Safety
1937 Metropolitan Life Insurance Company
1965 Miles Laboratories, Inc.
1936 Mine Safety Appliances Company
1949 Mobil Oil Corporation
1956 Jesse S. Morle & Son, Inc.
1936 Motor Vehicle Mfrs. Assn. of U.S., Inc.

1947 ICI America, Inc.
1972 Industrial Bio-Test Laboratories, Inc.
1973 Ingersoll-Rand Company
1947 Inland Steel Company
1947 International Business Machines Corp.
1970 International Lead Zinc Research Org.

1937 NL Industries, Inc.
1971 National Association of Manufacturers
1973 National Forge Company
1938 National Slag Association
1972 Organization Resources Counselors, Inc.
1953 Owens-Corning Fiberglas Corporation
1936 Owens-Illinois, Inc.

1936 Johns-Manville Corporation
1939 Jones & Laughlin Steel Corporation

1937 PPG Industries Inc.
1937 Pennsylvania Glass Sand Corporation

11.

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Date		Company		Date		Company	
Joined				Joined			
1972	Peoples Natural Gas Company			1965	Sturm, Ruger & Company, Inc.		
1970	Pneumafil Corporation				Tenneco, Inc.		
1938	Portland Cement Association			1938	Texasgulf, Inc.		
1970	Putnam Industries, Inc.			1966	Thermal Insulation Manufacturers, Inc.		
1973	Putnam-Standard			1960	Tomb River Chemical Corporation		
1937	H. H. Robertson Company			1970	Travelers Insurance Companies		
1972	Safety First Industries, Inc.			1972	Tri-State Engineering Company		
1973	The Sayer Glove Corporation				Union Carbide Corporation		
1937	St. Joe Minerals Corporation			1936	United States Mineral Products Company		
1956	Sauerleish Cement Company			1936	United States Steel Corporation		
1956	Seattle Services Division						
1971	The Sealing Company						
	Selenium-Technology Development Association, Inc.			1960	Van Stratten Chemical Company		
1972	Shell Oil Company			1938	Yessylus Crucible Company		
1966	Shindler-Koppers Company						
1956	Soap and Detergent Association			1937	Weidron Siles Div.		
1973	Stark Associates, Inc.				Del Monte Properties Company		
1962	Stauffer Chemical Company			1962	Western Electric Company, Inc.		
1973	A. Stock Company			1937	Westinghouse Electric Corporation		
				1968	Arthur C. Withrow Company		

IHF MEMBERS

Date Joined	Company	Date Joined	Company
1917	Abrasive Grain Association	1953	Can Manufacturers Institute, Inc.
1936	Allegheny Ludlum Industries, Inc.	1952	Celanese Corporation
1956	Allied Chemical Corporation	1971	*Cemented Carbide Producers Association
1936	Aluminum Company of America	1968	Certain-Teed Saint Gobain Insulation Corp.
1969	Aluminum Company of Canada, Ltd.	1974	Chrysler Corporation
1974	AMETEK, Inc.	1958	Ciga-Geigy AG
1947	American Can Company	1972	Columbia Gas System Service Corporation
1971	American Foundrymen's Society	1958	Companhia Siderurgica Nacional
1938	*American Insurance Association	1973	Consolidated Edison Company of New York, Inc.
1914	American Iron and Steel Institute	1972	Consolidated Natural Gas Service Company
1957	American Metal Climax, Inc.	1974	Colt Industries Inc.
1937	American Mining Congress	1962	Creole Petroleum Corporation
1945	American Mutual Insurance Alliance	1974	DeSoto, Inc.
1944	American Optical Corporation	1952	Diamond Shamrock Corporation
1967	American Petroleum Institute	1971	Dow Chemical Co., A.
1936	American Smelting & Refining Co.	1937	Duckensfeld Division, Hercules, Inc.
1969	American Textile Mfrs. Institute, Inc.	1937	Dravo Corporation
1966	ARCO/Polymers, Inc.	1936	E. I. du Pont de Nemours & Company
1970	Argonaut Insurance Company	1966	Eastman Kodak Company
1974	BASF Wyandotte Corporation	1973	Minerals & Chemicals Division, Engelhard Minerals & Chemicals Corp.
1970	The Babson Company	1956	Equitable Life Assurance Society of United States
1971	Brake Drum & Equipment Company	1964	Exxon Corporation
1941	Brush Wellman, Inc.	1973	Falcon Foundry Company
1961	Butler County Mushroom Farm, Inc.	1949	Ferro Corporation
1955	CPC International, Inc.	1947	Ford Motor Company

Multiple Membership

<u>Date</u> <u>Joined</u>	<u>Company</u>	<u>Date</u> <u>Joined</u>	<u>Company</u>
1974	Fostoria Glass Company	1973	Keystone Metal Company
1936	Foundry Supply Manufacturers Group	1974	Kopp Glass, Inc.
1968	General Asbestos & Rubber Division.	1942	Koppers Company, Inc.
	Raybestos-Manhattan, Inc.		
1970	General Cigar Company, Inc.	1970	Laclede Steel Company
1947	General Electric Company	1968	Homier Laughlin China Company
1951	General Mills, Inc.	1974	Lenox Crystal, Inc.
1942	General Motors Corporation	1962	Louisiana Army Ammunition Plant
			Thiokol/Louisiana Division
1974	General Refractories Company	1937	J. S. McCormick Company
1954	Georgia Kaolin Company	1966	Marcona Mining Company
1937	Glenshaw Glass Company, Inc.	1970	Marion Health & Safety, Inc.
1937	*Grinding Wheel Institute	1974	Jas. H. Matthews & Company
1950	Gulf Oil Corporation	1937	Metropolitan Life Insurance Company
1936	Hall China Company	1965	Miles Laboratories, Inc.
1972	Heinz U.S.A. (Div. of H. J. Heinz Co.)	1974	Milliken Brick Company
1973	Howell Industrial Clinic	1936	Mine Safety Appliances Company
1937	Huntington Alloy Products Division.	1971	Mobay Chemical Company
	International Nickel Co., Inc.		
1947	ICI America, Inc.	1949	Mobil Oil Corporation
1973	Ingersoll-Rand Company	1936	Motor Vehicle Manufacturers Assn. of U.S., Inc
1947	Inland Steel Company	1937	ML Industries, Inc.
1947	International Business Machines Corp.	1971	National Annealing Box Company
1970	International Lead Zinc Research Org.	1973	National Forge Company
1974	International Technical Information Institute	1974	National Independent Coal Operators' Assn.
1936	Johns-Manville Corporation	1938	National Slag Association
1939	Jones & Laughlin Steel Corporation	1972	Organization Resources Counselors, Inc.
1955	Kawecky Deryleo Industries, Inc.	1953	Owens-Corning Fiberglass Corporation

Date Joined	Company	Date Joined	Company
1936	Owens-Illinois, Inc.	1973	Starks Associates, Inc.
1937	PPG Industries, Inc.	1962	Stauffer Chemical Company
1937	Pennsylvania Glass Sand Corp.	1965	Sturm, Ruger & Company, Inc.
1972	Peoples Natural Gas Company	1969	Tenneco, Inc.
1970	Pneumafil Corporation	1966	Thermal Insulation Manufacturers Assn., Inc.
1938	Portland Cement Association	1970	Travelers Insurance Companies
1970	Potters Industries, Inc.	1972	Trl-State Engineering Company
1973	Pullman-Standard	1936	Union Carbide Corporation
1937	H. H. Robertson Company	1974	United States Gypsum Company
1972	Safety First Industries, Inc.	1970	U. S. Mineral Products Company
1973	The Sager Glove Corporation	1936	U. S. Pottery Association
1937	St. Joe Minerals Corporation	1936	United States Steel Corporation
1956	Saunderstein Cements Company	1960	Van Stratten Chemical Company
1956	Seattle Services Division.	1938	Vesuvius Crucible Company
1971	The Boeing Company		
	Selenium-Tellurium Development		
1974	Association, Inc.	1974	Watson-Standard Company
	Shafed Steel Corporation		
1972	Shell Oil Company	1937	Wedron, Glick, Division
1974	Shearago Incorporated	1962	Del Monte Properties Company
1956	Soap and Detergent Association	1937	Western Electric Company, Inc.
		1968	Westinghouse Electric Corporation
			Arthur C. Withrow Company

1937	*Abrasive Grain Association	1937	*Grinding Wheel Institute
1936	Allegheny Ludlum Industries, Inc.	1950	Gulf Oil Corporation
1936	Allied Chemical Corporation	1936	Hall China Company
1936	Aluminum Company of America	1972	Heinz U.S.A. (Div. of H. J. Heinz Co.)
1969	Aluminum Company of Canada, Ltd.	1973	Howell Industrial Clinic
1947	American Can Company	1937	Huntington Alloys, Inc.
1971	American Foundrymen's Society	1975	Industrial Gasket & Shim Co., Inc.
1938	*American Insurance Association	1973	Ingersoll-Rand Company
1944	American Iron and Steel Institute	1947	Inland Steel Company
1957	American Metal Climax, Inc.	1947	IBM Corporation
1937	American Mining Congress	1970	International Lead Zinc Research Org.
1945	*American Mutual Insurance Alliance	1974	International Technical Information Inst.
1944	American Optical Corporation	1936	Jonas-Manville Corporation
1967	American Petroleum Institute	1939	Jones & Laughlin Steel Corporation
1936	ASARCO Incorporated	1955	Kawewski Beryllco Industries, Inc.
1969	American Textile Mfrs. Institute, Inc.	1974	Kopp Glass, Inc.
1966	ARCO/Polymers, Inc.	1942	Koppers Company, Inc.
1970	Argonaut Insurance Company	1970	Laclede Steel Company
1974	BASF Wyandotte Corporation	1968	Homier Laughlin China Company
1970	The Bahnsen Company	1974	Lenox Crystal, Inc.
1944	Brush Wellman, Inc.	1937	J. S. McCormick Company
1955	CPC International, Inc.	1966	Marrona Mining Company
1953	Can Manufacturers Institute, Inc.	1970	Marion Health & Safety, Inc.
1952	Celanese Corporation	1937	*Metropolitan Life Insurance Company
1971	*Cemented Carbide Producers Assn.	1965	Miles Laboratories, Inc.
1968	Certain-Tied St. Gobain Insulation Corp.	1974	Milliken Brick Company
1974	Chrysler Corporation	1936	Mine Safety Appliances Company
1958	Ciba-Geigy AG	1974	Mobay Chemical Company
1974	Cult Industries Inc.	1975	Monongahela Iron & Metal Company, Inc.
1972	Columbia Gas System Service Corporation	1936	Motor Vehicle Mfrs. Assn. of U.S., Inc.
1975	Commercial Shearings, Inc.	1937	NI Industries, Inc.
1958	Companhia Siderurgica Nacional	1974	National Annealing Box Company
1973	Consolidated Edison Co. of New York, Inc.	1973	National Forge Company
1972	Consolidated Natural Gas Service Company	1972	Organization Resources Counselors, Inc.
1975	Consolidation Coal Company, Inc.	1953	Owens-Corning Fiberglas Corporation
1975	D'Appolonia Consulting Engineers, Inc.	1936	Owens-Illinois, Inc.
1974	DeSoto, Inc.	1937	PPC Industries, Inc.
1952	Diamond Shamrock Corporation	1937	Pennsylvania Glass Sand Corporation
1973	Dow Chemical U.S.A.	1972	Peoples Natural Gas Company
1937	Drakenfeld Division, Hercules, Inc.	1975	Pittsburgh & Lake Erie Railroad
1947	Dravo Corporation	1970	Pneumafil Corporation
1936	E. I. du Pont de Nemours & Company	1938	Portland Cement Association
1966	Eastman Kodak Company	1970	Potters Industries, Inc.
1971	Minerals & Chemicals Division, Fogelhard Minerals & Chemicals Corp.	1973	Pullman-Standard
1975	Epi Metals Corporation	1968	Raybestos-Manhattan, Inc.
1956	Equitable Life Assurance Society of U.S.	1937	H. H. Robertson Company
1964	Faxon Corporation	1972	Safety First Industries, Inc.
1973	Falcon Foundry Company	1973	The Sager Glove Corporation
1974	Fostoria Glass Company	1937	St. Joe Minerals Corporation
1966	Foundry Supply Manufacturers Group	1956	Sauersson Cements Company
1970	General Cigar Company, Inc.	1956	Seattle Services Division, The Boeing Co.
1947	General Electric Company	1971	Selement-Tellurium Development Assn., Inc.
1951	General Mills, Inc.	1974	Sharon Steel Corporation
1962	General Motors Corporation	1972	Shell Oil Company
1974	General Refractories Company	1974	Shenoy Incorporated
1954	Georgia Kaolin Company	1956	Soap and Detergent Association
		1975	The Standard Oil Company

Multiple Membership

<u>Date</u> <u>Joined</u>	<u>Company</u>	<u>Date</u> <u>Joined</u>	<u>Company</u>
1962	Stauffer Chemical Company	1960	Van Straaten Chemical Company
1965	Sturm, Ruger & Company, Inc.	1938	Vesuvius Crucible Company
1969	Tenbeco, Inc.	1975	Vulcan Mold & Iron Company
1966	Thermal Insulation Manufacturers Association, Inc.	1975	Washington Mould, Machine & Foundry Company
1970	Travelers Insurance Companies	1974	Watson-Standard Company
1972	Tri-State Engineering Company	1937	Wedron Silica Division, Del Monte Properties Company
1936	Union Carbide Corporation	1962	Western Electric Company, Inc.
1974	United States Gypsum Company	1937	Westinghouse Electric Corporation
1970	U. S. Mineral Products Company	1968	Arthur C. Withrow Company
1936	U. S. Potters Association	1975	Young Galvanizing, Inc.
1936	United States Steel Corporation		

NEW MEMBERS

The Ansul Company
 Consolidation Coal Company, Inc.
 E. D'Appolonia Consulting Engineers, Inc.
 Epic Metals Corporation
 Industrial Gasket & Shim Company, Inc.
 Monongahela Iron & Metal Company, Inc.
 Pittsburgh & Lake Erie Railroad
 The Standard Oil Company
 Vulcan Iron & Mold Company
 Washington Mould, Machine & Foundry Company
 Young Galvanizing, Inc.

<u>Date</u> <u>Joined</u>	<u>Company</u>	<u>Date</u> <u>Joined</u>	<u>Company</u>
1937	*Abrasive Grain Association	1973	Falcon Foundry Co.
1976	Allegheny County Sanitary Authority	1976	Fort Pitt Steel Casting
1936	Allegheny Ludlum Industries, Inc.	1974	Fortoria Glass Co.
1956	Allied Chemical Corp.	1976	Franklin Glue Co.
1936	Aluminum Company of America	1936	Foundry Supply Manufacturers Group
1969	Aluminum Company of Canada, Ltd.	1970	General Cigar Co., Inc.
1947	American Can Co.	1947	General Electric Co.
1971	American Foundrymen's Society	1951	General Mills, Inc.
1938	*American Insurance Association	1942	General Motors Corp.
1944	American Iron and Steel Institute	1974	General Refractories Co.
1957	AMAX, Inc.	1954	Georgia Kaolin Co.
1937	American Mining Congress	1937	*Grinding Wheel Institute
1945	*American Mutual Insurance Alliance	1950	Gulf Oil Corp.
1944	A. O. Safety Products (Div. of American Optical Corp.)	1976	Halcon International, Inc.
1967	American Petroleum Institute	1936	Hall China Co.
1976	American Restaurant China Council, Inc.	1976	Harbison-Walker Refractories
1936	ASARCO Incorporated	1972	Heinz U.S.A. (Div. of H. J. Heinz Co.)
1969	American Textile Mfrs. Institute, Inc.	1976	Hill & Griffith Co.
1976	American Welding & Manufacturing Co.	1973	Howell Industrial Clinic
1976	American Wood Preservers Institute	1937	Huntington Alloys, Inc.
1976	Americhem, Inc.	1975	Industrial Gasket & Seals Co., Inc.
1976	Anaconda Co., Wire & Cable Div.	1973	Ingersoll-Rand Co.
1966	ARCO/Polymers, Inc.	1947	Inland Steel Co.
1970	Argonaut Insurance Co.	1947	IBM Corp.
1974	BASF Wyandotte Corp.	1970	International Lead Zinc Research Org.
1970	The Bahrman Co.	1974	International Technical Information Inst.
1944	Brush Wellman, Inc.	1936	John-Marville Corp.
1955	CPC International, Inc.	1939	Jones & Laughlin Steel Corp.
1953	Can Manufacturers Institute, Inc.	1955	Kawachi Beryllium Industries, Inc.
1971	*Cemented Carbide Producers Association	1974	Kopp Glass, Inc.
1968	Certain-Ted St. Gobain Insulation Corp.	1942	Koppers Co., Inc.
1974	Chrysler Corp.	1970	Laclede Steel Co.
1958	Ciba-Geigy AG	1962	Lagow, S.A.
1974	Colt Industries Inc.	1968	Homar Laughlin China Co.
1972	Columbia Gas System Service Corp.	1974	Lenox Crystal, Inc.
1976	Commercial Shearing, Inc.	1937	J. S. McDermott Co.
1958	Companhia Siderurgica Nacional	1976	Marathon Oil Co.
1973	Consolidated Edison Co. of New York, Inc.	1966	Marcone Mining Co.
1972	Consolidated Natural Gas Service Co.	1970	Marion Health & Safety, Inc.
1975	Consolidation Coal Co., Inc.	1937	Metropolitan Life Insurance Co.
1975	D'Appolonia Consulting Engineers, Inc.	1965	Miles Laboratories, Inc.
1974	DeSoto, Inc.	1974	Milliken Brick Co.
1952	Diamond Shamrock Corp.	1936	Mine Safety Appliances Co.
1976	Dirk Corp.	1974	Mobay Chemical Co.
1973	Dow Chemical U.S.A.	1975	Monongahela Iron & Metal Co., Inc.
1976	Dow Corning Corp.	1936	Motor Vehicle Mfrs. Assn. of U.S., Inc.
1947	Drakefield Division, Hercules, Inc.	1937	NL Industries, Inc.
1937	Dravo Corp.	1974	National Amalgam Box Co.
1936	E. J. du Pont de Nemours & Co.	1973	National Forge Co.
1966	Eastman Kodak Co.	1972	Organization Research & Consultants, Inc.
1973	Minerals & Chemicals Division, Engelhard Minerals & Chemicals Corp.	1953	Owens-Illinois Glass Corp.
1976	Epic Metals Corp.	1937	PFC Industries, Inc.
1951	Equitable Life Assurance Society of U. S.	1937	Pennsylvania Gas & Oil Corp.
1964	Exxon Corp.	1972	Peoples Natural Gas Co.
1976	Essex Group	1975	Pittsburgh & Lake Erie Railroad
		1970	Pneumatic Corp.
		1938	Portland Cement Association

*Multiple Membership

IHL Members (continued)

<u>Date</u> <u>Joined</u>	<u>Company</u>	<u>Date</u> <u>Joined</u>	<u>Company</u>
1970	Potters Industries, Inc.	1969	Tenneco, Inc.
1973	Pullman-Standard	1966	Thermal Insulation Mfrs. Assn., Inc.
1976	RAD Services, Inc.	1976	Tile Council of America, Inc.
1968	Raybestos-Manhattan, Inc.	1970	Travelers Insurance Co.
1976	The Refractories Institute	1972	Tri-State Engineering Co.
1937	H. H. Robertson Co.	1976	U-VI Inc.
1976	SCM Corp.	1936	Union Carbide Corp.
1972	Safety First Industries, Inc.	1974	United States Gypsum Co.
1976	Schering-Plough Corp.	1970	U. S. Mineral Products Co.
1973	The Sayer Glove Corp.	1936	U. S. Potters Association
1937	St. Joe Minerals Corp.	1936	United States Steel Corp.
1956	Sauersaeger Cements Co.	1960	Van Stratten Chemical Co.
1956	Seattle Services Div., The Boeing Co.	1972	Vesuvius Crucible Co.
1971	Seleniun-Tellurium Development Assn., Inc.	1975	Vulcan Mold & Iron Co.
1976	Senco Products, Inc.	1976	WABCO Transportation Systems Group
1974	Sharon Steel Corp.	1975	Washington Mould Machine & Foundry Co.
1972	Shell Oil Co.	1974	Watson-Standard Co.
1974	Shenango Inc.	1937	Wedron Silica Division, Del Monte Properties Co.
1956	Soap and Detergent Association	1962	Western Electric Co., Inc.
1975	The Standard Oil Co.	1937	Westinghouse Electric Corp.
1962	Stauffer Chemical Co.	1976	Williams & Co., Inc.
1976	Stellite Division, Cabot Corp.	1968	Arthur C. Withrow Co.
1965	Sturm, Ruger & Co., Inc.	1975	Young Galvanizing, Inc.

NEW MEMBERS

Allegheny County Sanitary Authority
 American Restaurant China Council, Inc.
 American Welding and Manufacturing Company
 American Wood Preservers Institute
 Americhem, Incorporated
 Anacosta Company, Wire and Cable Division
 Commercial Shearing, Incorporated
 Dick Corporation
 Dow Corning Corporation
 Essex Group, Incorporated
 Fort Pitt Steel Casting
 The Franklin Glue Company
 Halcon International, Incorporated
 Harbison-Walker Refractories
 Hill and Griffith Company
 Marathon Oil Company
 RAD Services, Incorporated
 The Refractories Institute
 Schering-Plough Corporation
 Senco Products, Incorporated
 SCM Corporation
 Stellite Division, Cabot Corporation
 Tile Council of America, Incorporated
 U-VI Incorporated
 WABCO Transportation Systems Group
 Williams and Company, Incorporated

III MEMBERS - 1977 Annual Report

Date Joined	Company
1937	*Abrasive Grain Association
1976	Allegheny County Sanitary Authority
1936	Allegheny Ludlum Industries, Inc.
1945	*Alliance of American Insurers
1956	Allied Chemical Corp.
1936	Aluminum Co. of America
1969	Aluminum Co. of Canada, Ltd.
1957	AMAX, Inc.
1947	American Can Co.
1971	American Foundrymen's Society
1973	American Industrial Hygiene Association
1938	*American Insurance Association
1944	American Iron & Steel Institute
1937	American Mining Congress
1967	American Petroleum Institute
1976	American Restaurant Chain Council, Inc.
1936	ASARCO, Inc.
1969	American Textile Manufacturers Institute, Inc.
1976	American Welding & Manufacturing Co.
1976	American Wood Preservers Institute
1976	Americhem, Inc.
1976	Anacosta Co., Wire & Cable Division
1966	ARCO/Polymers, Inc.
1970	Argonaut Insurance Co.
1974	BASF Wyandotte Corp.
1977	Borg-Warner Chemicals
1944	Brush Wellman, Inc.
1977	Buffalo Color Corp.
1955	CPC International, Inc.
1977	Campbell Soup Co.
1971	Cemented Carbide Producers Association
1977	Central Medical Health Services
1968	Certain Feed Corp.
1974	Chrysler Corp.
1956	Ciba-Geigy AG
1974	Colt Industries Inc.
1972	Columbia Gas System Service Corp.
1975	Commercial Shearing, Inc.
1958	Companhia Siderurgica Nacional
197	Consolidated Edison Co. of New York, Inc.
1977	Consolidated Natural Gas Service Co.
1977	Consolidation Coal Co., Inc.
1977	Copaco Cupanes Co., Inc.
1972	Cummins Engine Co., Inc.
1976	Dow Chemical U.S.A.
1976	Dow Corning Corp.
1937	Drakenfeld Division, Hercules, Inc.
1937	Dravo Corp.
1966	Eastman Kodak Co.
1976	F. I. du Pont de Nemours & Co.
1976	Minerals & Chemicals Division Fugelhard Minerals & Chemicals Corp.
1976	Epi Metals Corp.

*Multiple Membership

Date Joined	Company
1956	Equitable Life Assurance Society of U.S.
1976	Essex Group, Inc.
1964	Exxon Corp.
1973	Falcon Foundry Co.
1976	Fort Pitt Steel Casting
1974	Fostoria Glass Co.
1936	Foundry Supply Manufacturers Group
1976	The Franklin Glue Co.
1970	General Cigar & Tobacco Co., Inc. of Culbro Corp.
1947	General Electric Co.
1951	General Mills, Inc.
1942	General Motors Corp.
1974	General Refractories Co.
1954	Georgia Kaolin Co.
1937	*Grinding Wheel Institute
1950	Gulf Oil Corp.
1976	Halcon International, Inc.
1936	Hall China Co.
1977	Hankison Corp.
1976	Harbison-Walker Refractories
1972	Heinz U.S.A. (Div. of H.J. Heinz Co.)
1966	Hierro-Peru
1976	Hill & Griffith Co.
1973	Howell Industrial Clinic
1937	Huntington Alloys, Inc.
1975	Industrial Gasket & Shim Co., Inc.
1947	Inland Steel Co.
1947	International Business Machines Corp.
1970	International Lead/Zinc Research Organization
1936	John-Manville Corp.
1939	Jones & Laughlin Steel Corp.
1955	Kawecky Beryleo Industries, Inc.
1974	Kopp Glass, Inc.
1970	Laclede Steel Co.
1962	Lagoven, S.A.
1968	Homer Laughlin China Co.
1974	Lenox Crystal, Inc.
1937	J. S. McCormick Co.
1976	Marathon Oil Co.
1977	Metropolitan Life Insurance Co.
1956	Mine Safety Appliances Co.
1971	Mobay Chemical Co.
1977	Monongahela Iron Works Co.
1976	Motor Coils Manufacturing Co.
1936	Motor Vehicle Manufacturers Assn. of U.S., Inc.
1974	National Annealing Res. Co.
1972	National Forge Co.
1977	National Health Watch, Inc.
1972	Organization Resources Counselors, Inc.
1953	Owens-Corning Fiberglas Corp.
1937	PPG Industries, Inc.
1937	Pennsylvania Glass Sand Corp.

IHF MEMBERS (continued)

<u>Date Joined</u>	<u>Company</u>	<u>Date Joined</u>	<u>Company</u>
1972	Peoples Natural Gas Co.	1976	Stellite Division, Cabot Corp.
1975	Pittsburgh & Lake Erie Railroad	1969	Tenneco, Inc.
1970	Pneumafil Corp.	1960	Thermal Insulation Manufacturers Assn.
1938	Portland Cement Association	1976	Tile Council of America, Inc.
1970	Potters Industries, Inc.	1970	Travelers Insurance Companies
1973	Pullman-Standard	1972	Tri-State Engineering Co.
1977	Quaker State Oil Refining Corp.	1976	II-VI Inc.
1976	RAD Services, Inc.	1936	Union Carbide Corp.
1968	Raybestos-Manhattan, Inc.	1974	United States Gypsum Co.
1976	The Refractories Institute	1970	U. S. Minerals Products Co.
1937	H. H. Robertson Co.	1936	U. S. Potters Association
1976	SCM Corp.	1936	United States Steel Corp.
1972	Safety First Industries, Inc.	1960	Van Stratten Chemical Co.
1973	The Sager Glove Corp.	1972	Vesovius Crucible Co.
1937	St. Joe Minerals Corp.	1977	Volkswagen Mfg. Corp. of America
1937	Sauerstein Cements Co.	1976	WABCO Railway Products Group
1977	Schuylkill Metals Corp.	1975	Washington Electric Machine & Laundry Co.
1956	Seattle Services Div., The Boeing Co.	1974	Watson-Standard Co.
1976	Senco Products, Inc.	1937	Wedron Silica Div., Public Beach Corp.
1974	Sharon Steel Corp.	1977	Wendel Tile Co.
1972	Shell Oil Co.	1962	Western Electric Co., Inc.
1974	Shenango Inc.	1937	Westinghouse Electric Corp.
1956	Soap & Detergent Association	1977	Whirlpool Corp.
1977	Spartek, Inc.	1976	Williams & Co., Inc.
1975	The Standard Oil Co.	1975	Young Galvanizing, Inc.
1937	Stauffer Chemical Co.		

NEW MEMBERS — 1977

Borg-Warner Chemicals
 Buffalo Color Corp.
 Campbell Soup Co.
 Central Medical Health Services
 John D. Copanos Co., Inc.
 Hankison Corp.
 Motor Colls. Manufacturing Co.
 National Health Watch, Inc.
 Quaker State Oil Refining Corp.
 Schuylkill Metals Corp.
 Spartek, Inc.
 Volkswagen Manufacturing Corp. of America
 Wendel Tile Co.
 Whirlpool Corp.

IHF MEMBERS - 1978 Annual Report

<u>Date</u> <u>Joined</u>	<u>Company</u>	<u>Date</u> <u>Joined</u>	<u>Company</u>
1937	*Abrasive Grain Association	1976	Essex Group
1978	Alberta Dept. of Labour	1964	Exxon Corp.
1976	Allegheny County Sanitary Authority	1973	Falcon Foundry Co.
1936	Allegheny Ludlum Industries, Inc.	1978	Fisher Controls Co.
1945	*Alliance of American Insurers	1976	Fort Pitt Steel Casting
1956	Allied Chemical Corp.	1974	Fostoria Glass Co.
1936	Aluminum Co. of America	1936	Foundry Supply Manufacturers Group
1969	Aluminum Co. of Canada	1976	The Franklin Glue Co.
1957	AMAX, Inc.	1978	General Alloy Casting Co.
1947	American Can Co.	1970	General Cigar & Tobacco Co.
1971	American Foundrymen's Society	1947	General Electric Co.
1973	American Industrial Hygiene Association	1951	General Mills, Inc.
1938	*American Insurance Association	1942	General Motors Corp.
1944	American Iron & Steel Institute	1974	General Refractories Co.
1937	American Mining Congress	1954	Georgia Kaolin Research
1967	American Petroleum Institute	1937	*Grinding Wheel Institute
1976	American Restaurant China Council, Inc.	1950	Gulf Oil Corp.
1969	American Textile Mfrs. Institute, Inc.	1976	Halcon International, Inc.
1976	American Welding & Manufacturing Co.	1936	Hall China Co.
1976	American Wood Preservers Institute	1977	Hankison Corp.
1976	Americhem Inc.	1976	Harbison-Walker Refractories
1976	Anaconda Co., Wire & Cable Div.	1978	Harvey Industries, Inc.
1966	ARCO/Polymers, Inc.	1966	Hierro-Peru
1970	Argonaut Insurance Co.	1978	Hill & Griffith Co.
1936	ASARCO, Inc.	1975	Howell Industrial Clinic
1977	Borg-Warner Chemicals	1937	Huntington Alloys, Inc.
1944	Brush Wellman, Inc.	1978	Huntington Plating, Inc.
1977	Buffalo Color Corp.	1978	ICI Americas, Inc.
1977	Campbell Soup Co.	1978	ILCO, Inc.
1971	*Cemented Carbide Producers Assn.	1978	Imaging Systems Corp.
1977	Central Medical Health Services	1975	Industrial Gasket & Shim Co.
1968	CertainTeed Corp.	1947	Inland Steel Co.
1974	Chrysler Corp.	1947	International Business Machines Corp.
1958	Ciba-Geigy AG	1970	International Lead Zinc Research Org.
1974	Colt Industries Inc.	1936	Johns-Manville Corp.
1972	Columbia Gas System Service Corp.	1939	Jones & Laughlin Steel Corp.
1978	Columbia Nitrogen Corp.	1955	Kawacki Berylico Industries, Inc.
1975	Commercial Shearing, Inc.	1974	Kopp Glass, Inc.
1958	Companhia Siderurgica Nacional	1942	Koppers Co., Inc.
1973	Consolidated Edison Co. of New York, Inc.	1970	Laclede Steel Co.
1972	Consolidated Natural Gas Service Co.	1962	Lapoven, S.A.
1975	Consolidation Coal Co., Inc.	1968	Homer Laughlin China Co.
1977	John D. Copanos Co., Inc.	1974	Lenox Crystal, Inc.
1978	D'Appolonia Consulting Engineers, Inc.	1978	M & T Chemicals, Inc.
1952	Diamond Shamrock Corp.	1977	J. S. McCormick Co.
1976	Dick Corp.	1976	Marathon Oil Co.
1973	Dow Chemical U.S.A.	1978	C. H. Masland & Sons
1976	Dow Corning Corp.	1937	Metropolitan Life Insurance Co.
1937	Drakenfeld Div., Hercules, Inc.	1936	Mine Safety Appliances Co.
1937	Dravo Corp.	1974	Mobay Chemical Co.
1936	E. I. du Pont de Nemours & Co.	1975	Molded Fiber Glass Tray Co.
1978	Duraloy Blaw-Knox, Inc.	1975	Monongahela Iron & Metal Co.
1973	Minerals & Chemicals Division	1977	Motor Coils Manufacturing Co.
	Engelhard Minerals & Chemicals Corp.	1936	Motor Vehicle Manufacturers Assn.
1975	Epic Metals Corp.	1974	National Annealing Box Co.

*Multiple Membership

IHF MEMBERS (continued)

<u>Date Joined</u>	<u>Company</u>	<u>Date Joined</u>	<u>Company</u>
1977	National Health Watch, Inc.	1974	Shenango Inc.
1972	Organization Resources Counselors, Inc.	1956	Soap & Detergent Association
1953	Owens-Corning Fiberglas Corp.	1977	Spartek, Inc.
1937	Pennsylvania Glass Sand Corp.	1975	The Standard Oil Co.
1978	Pennsylvania Power Co.	1976	Stellite Div., Cabot Corp.
1972	Peoples Natural Gas Co.	1969	Tenneco Inc.
1975	Pittsburgh & Lake Erie Railroad	1966	Thermal Insulation Manufacturers Assn.
1970	Pneumafil Corp.	1978	Tile Council of America, Inc.
1938	Portland Cement Association	1970	Travelers Insurance Companies
1970	Potters Industries, Inc.	1972	Tri-State Engineering Co.
1937	PPG Industries, Inc.	1976	II-VI Inc.
1973	Pullman-Standard	1936	Union Carbide Corp.
1977	Quaker State Oil Refining Corp.	1974	United States Gypsum Co.
1976	RAD Services, Inc.	1970	U. S. Mineral Products Co.
1968	Raybestos-Manhattan, Inc.	1936	U. S. Pottery Association
1976	The Refractories Institute	1960	Van Straaten Chemical Co.
1937	H. H. Robertson Co.	1972	Vesuvius Crucible Co.
1978	Roux Laboratories, Inc.	1977	Volkswagen Mfg. Corp. of America
1972	Safety First Industries, Inc.	1976	WABCO Railway Products Group
1973	The Sager Glove Corp.	1975	Washington Mould, Machine & Foundry Co.
1937	St. Joe Minerals Corp.	1974	Watson-Standard Co.
1956	Sauereisen Cements Co.	1977	Wenzel Tile Co.
1977	Schuylkill Metals Corp.	1962	Western Electric Co.
1976	SCM Corp.	1937	Westinghouse Electric Corp.
1956	Seattle Services Div., Boeing Co.	1977	Whirlpool Corp.
1976	Senco Products, Inc.	1976	Williams & Co.
1974	Sharon Steel Corp.	1975	Young Galvanizing, Inc.
1972	Shell Oil Co.		

NEW MEMBERS — 1978

Alberta Department of Labour
 Columbia Nitrogen Corp.
 Duraloy Blaw-Knox, Inc.
 Fisher Controls Co.
 General Alloy Casting Co.
 Harvey Industries, Inc.
 Huntington Plating, Inc.
 IDCO, Inc.
 Imaging Systems Corp.
 M. & T Chemicals, Inc.
 C. H. Masland & Sons
 Molded Fiber Glass Tray Co.
 Pennsylvania Power Co.
 Roux Laboratories, Inc.

IHF Members

<u>Date</u> <u>Joined</u>	<u>Company</u>	<u>Date</u> <u>Joined</u>	<u>Company</u>
1937	*Abrasive Grain Association	1975	Epic Metals Corp.
1978	Alberta Workers' Health, Safety & Compensation	1964	Exxon Corp.
1976	Allegheny County Sanitary Authority	1973	Falcon Foundry Corp.
1936	Allegheny Ludlum Industries, Inc.	1979	Joseph B. Fay Co.
1943	*Alliance of American Insurers	1978	Fisher Controls Co.
1934	Allied Chemical Corp.	1979	FMC Corp.
1974	Aloe Coal Co.	1974	Fontoria Glass Co.
1936	Aluminum Company of America	1976	The Franklin Glue Co.
1949	Aluminum Company of Canada	1979	Fusion Ceramics, Inc.
1957	AMAX, Inc.	1979	General Accident Group
1947	American Can Co.	1978	General Alloy Casting Co.
1973	American Industrial Hygiene Association	1947	General Electric Co.
1937	American Mining Congress	1942	General Motors Corp.
1967	American Petroleum Institute	1974	General Refractories Co.
1976	American Restaurant Chain Council, Inc.	1934	Georgia Kaolin Research
1969	American Textile Manufacturers Inst.	1937	*Grinding Wheel Institute
1976	American Welding & Manufacturing Co.	1950	Gulf Oil Corp.
1974	American Wood Preservers Institute	1976	Halcon International, Inc.
1976	Americanchem, Inc.	1936	Hall China Co.
1979	Anaconda Company, Aluminum Division	1977	Hankison Corp.
1976	Anaconda Company, Wire & Cable Division	1976	Harbison-Walker Refractories
1970	Argonaut Insurance Co.	1978	Harvey Industries, Inc.
1936	ASARCO, Inc.	1979	Helnick Corp.
1979	Atchafalaya Insurance Corporation	1976	Hill & Griffith Co.
1977	Borg-Warner Commercials	1973	Howell Industrial Clinic
1979	Brick Institute of America	1937	Huntington Alloys, Inc.
1944	Brown Wallman, Inc.	1978	Huntington Plating, Inc.
1977	Buffalo Color Corp.	1978	ICI Americas, Inc.
1977	Campbell Soup Co.	1978	ILCO, Inc.
1971	*Cemented Cartridge Producers Association	1978	Imaging Systems Corp.
1968	CertainTeed Corp.	1975	Industrial Gasket & Shim Co., Inc.
1958	Ciba-Geigy AG	1947	Inland Steel Co.
1972	Columbia Gas System Service Corp.	1947	International Business Machines Corp.
1978	Columbia Aerospace Corp.	1970	International Lead Zinc Research Organization
1975	Commercial Boreing, Inc.	1936	Jones-Manville Corp.
1958	Combenha Siderurgica Nacional	1955	Kawacki Berylco Industries, Inc.
1973	Consolidated Edison Co. of New York, Inc.	1974	Kopp Glass, Inc.
1972	Consolidated Natural Gas Service Co.	1942	Koppers Company, Inc.
1975	Consolidation Coal Co., Inc.	1962	Lapoven, S.A.
1979	Contraves Gear Corp.	1958	Homer Laughlin China Co.
1977	Corb B. Copeland Co., Inc.	1974	Lenox Crystal, Inc.
1952	Diamond Shamrock	1978	M & T Chemicals, Inc.
1976	Dico Corp.	1937	J. S. McCormick Co.
1973	Dow Chemical U.S.A.	1976	Marathon Oil Co.
1976	Dow Corning Corp.	1978	C. H. Masland & Sons
1937	Durhamfield Colors, Ciba-Geigy Corp.	1937	Metropolitan Life Insurance Co.
1937	Durco Corp.	1936	Mini Safety Appliances Co.
1936	E. I. DuPont de Nemours & Co.	1974	Molay Chemical Co.
1978	Duralloy Kiewit-Knox, Inc.	1978	Molded Fiber Glass Tray Co.
1973	*Minerals & Chemicals Division,	1975	Monongahela Iron & Metal Co., Inc.
	Emphard Minerals & Chemicals Corp.	1977	Motor Coils Manufacturing Co.
1979	Engineering & Safety Department,	1936	Motor Vehicle Manufacturers Association
	American Insurance Association	1974	National Annealing Box Co.
		1977	National Health Watch, Inc.

*Multiple Membership

<u>Date Joined</u>	<u>Company</u>
1953	Corning Fiberglass Corp.
1937	Pennsylvania Glass Sand Corp.
1978	Pennsylvania Power Co.
1972	Peoples Natural Gas Co.
1979	Phelps Dodge Brass Co.
1975	Pittsburgh & Lake Erie Railroad
1970	Pneumafil Corp.
1979	Port Authority of Allegheny County
1938	Portland Cement Association
1970	Potters Industries, Inc.
1937	PPG Industries, Inc.
1979	P. Q. Corp.
1976	RAC Services, Inc.
1968	Raybestos-Manhattan, Inc.
1976	The Refractories Institute
1979	Reichhold Limited
1937	R. H. Robertson Co.
1976	Rour Laboratories, Inc.
1972	Safety First Industries, Inc.
1973	The Sager Glove Corp.
1937	St. Joe Minerals Corp.
1977	Schuylkill Metal Corp.
1976	SDI Corporation
1954	Seattle Services Division, Boeing Co.
1974	Sharon Steel Corp.
1972	Shell Oil Co.

<u>Date Joined</u>	<u>Company</u>
1979	New Castle Refractories Co.
1972	Organization Resources Counselors, Inc.
1974	Shenango Inc.
1977	Spartek, Inc.
1975	The Standard Oil Co.
1976	Stellite Division, Cabot Corp.
1966	Thermal Insulation Manufacturers Association
1978	Tile Council of America, Inc.
1970	Travelers Insurance Companies
1972	Tri-State Engineering Co.
1976	II-VI, Inc.
1936	Union Carbide Corp.
1979	U.S. Fidelity & Guaranty Co.
1974	United States Gypsum Co.
1936	U.S. Porters Association
1972	Vesuvius Crucible Co.
1977	Volkswagen of America Inc.
1976	WABCO Railway Products Group
1975	Washington Mould, Machine & Foundry Co.
1974	Watson-Standard Co.
1977	Wenzel Tile Co.
1962	Western Electric Company, Inc.
1937	Weatinghouse Electric Corp.
1979	Whitacre-Greer Fireproofing Co.
1977	Whirlpool Corp.
1979	Wickwire Systems Company, Inc.
1976	Williams & Co.

New Members

Aloe Coal Company
 Anaconda Company, Aluminum Division
 Bituminous Insurance Companies
 Brick Institute of America
 Contraves Coetz Corporation
 Engineering & Safety Department, American Insurance Association
 Joseph B. Fay Company
 FMC Corporation
 Fusion Ceramics, Incorporated
 General Accident Group
 Helmick Corporation
 New Castle Refractories Company
 Phelps Dodge Brass Company
 Port Authority of Allegheny County
 P. Q. Corporation
 Reichhold Limited
 U.S. Fidelity & Guaranty Company
 Whitacre-Greer Fireproofing Company
 Wickwire Systems Company, Incorporated

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IHF Members - Alphabetical

<u>Date Joined</u>	<u>Company</u>	<u>Date Joined</u>	<u>Company</u>
1937	Abrasive Grain Association Cleveland, Ohio 44107	1980	Centre Foundry & Machine Company Wheeling, W. Va. 26003
1976	Allegheny County Sanitary Authority Pittsburgh, Pa. 15233	1968	CertainTeed Corporation Valley Forge, Pa. 19482
1936	Allegheny Ludlum Industries, Inc. Pittsburgh, Pa. 15230	1972	Columbia Gas System Service Corp. Wilmington, Del. 19807
1945	Alliance of American Insurers Chicago, Ill. 60606	1978	Columbia Nitrogen Corporation Augusta, Ga. 30903
1956	Allied Chemical Corporation Morristown, N.J. 07960	1975	Commercial Shearing, Inc. Youngstown, Ohio 44501
1979	Alice Coal Company Imperial, Pa. 15126	1973	Consolidated Edison Company of New York, Inc. New York, N.Y. 10003
1936	Aluminum Company of America Pittsburgh, Pa. 15219	1972	Consolidated Natural Gas Service Company Pittsburgh, Pa. 15222
1957	AMAX, Inc. New York, N.Y. 10020	1975	Consolidation Coal Company, Inc. Pittsburgh, Pa. 15241
1947	American Can Company Greenwich, Conn. 06830	1979	Contraves Goerz Corporation Pittsburgh, Pa. 15238
1973	American Industrial Hygiene Association Akron, Ohio 44313	1980	Cooper Industries, Inc. Houston, Tex. 77210
1937	American Mining Congress Washington, D.C. 20036	1977	John D. Copanos Company, Inc. Baltimore, Md. 21225
1967	American Petroleum Institute Washington, D.C. 20037	1980	D'Appolonia Consulting Engineers, Inc. Pittsburgh, Pa. 15235
1967	American Restaurant China Council, Inc. Alexandria, Va. 22314	1952	Diamond Shamrock Corporation Cleveland, Ohio 44114
1976	American Wood Preservers Institute McLean, Va. 22101	1976	Dick Corporation Pittsburgh, Pa. 15236
1976	Americhem, Inc. Cuyahoga Falls, Ohio 44221	1980	Didier Taylor Refractories Corp. South Shore, Ky. 41175
1979	Anaconda Company, Aluminum Division Louisville, Ky. 40132	1939	Dow Chemical U.S.A. Midland, Mich. 48640
1976	Anaconda Company, Wire & Cable Division Greenwich, Conn. 06830	1976	Dow Corning Corporation Midland, Mich. 48640
1970	Argonaut Insurance Company Menlo Park, Calif. 94025	1937	Drakenfeld Colors, Ciba-Geigy Corp. Washington, Pa. 15301
1936	ASARCO, Inc. New York, N.Y. 10071	1937	Dravo Corporation Pittsburgh, Pa. 15225
1980	Badische Corporation Williamsburg, Va. 13185	1936	E. I. du Pont de Nemours & Company Wilmington, Del. 19898
1980	BMI, Inc., Refractory Division Carnegie, Pa. 15106	1978	Duraloy Blaw-Knox, Inc. Scottsdale, Pa. 15683
1959	The Boeing Company Seattle, Wash. 98114	1973	Engelhard Minerals & Chemicals Corporation, Minerals & Chemicals Division Edison, N.J. 08817
1977	Borg-Warner Chemicals Washington, W. Va. 26181	1979	Engineering & Safety Department, American Insurance Association New York, N.Y. 10038
1979	Brick Institute of America McLean, Va. 22101	1975	Epic Metals Corporation Rankin, Pa. 15104
1944	Brush Wellman, Inc. Cleveland, Ohio 44110	1964	Exxon Corporation New York, N.Y. 10020
1977	Buffalo Color Corporation Buffalo, N.Y. 14213	1973	Falcon Foundry Company Lowellville, Ohio 44436
1980	Cabot Corporation Pampa, Tex. 79065	1979	Joseph B. Fay Company Pittsburgh, Pa. 15238
1977	Campbell Soup Company Camden, N.J. 08101	1978	Fisher Controls Company Coraopolis, Pa. 15108
1971	Cemented Cartridge Producers Association Cleveland, Ohio 44107		

Date Joined	Company
1979	FMC Corporation Philadelphia, Pa. 19103
1974	Fostoria Glass Company Moundsville, W. Va. 26041
1976	The Franklin Glue Company Columbus, Ohio 43207
1979	Fusion Ceramics, Inc. Carrollton, Ohio 44615
1979	General Accident Group Philadelphia, Pa. 19105
1978	General Alloy Casting Company Rochester, Pa. 15074
1947	General Electric Company New York, N.Y. 10022
1942	General Motors Corporation Detroit, Mich. 48202
1974	General Refractories Company Bala-Cynwyd, Pa. 19004
1954	Georgia Kaolin Research Springfield, N.J. 07081
1937	Grinding Wheel Institute Cleveland, Ohio 44107
1950	Gulf Oil Corporation Pittsburgh, Pa. 15219
1976	Halcon R & F Corporation Montvale, N.J. 07645
1936	The Hall China Company East Liverpool, Ohio 43920
1977	Hankison Corporation Canonsburg, Pa. 15317
1976	Harbison-Walker Refractories Pittsburgh, Pa. 15222
1978	Harvey Industries, Inc. Salem, W. Va. 26426
1979	Helmick Corporation Fairmont, W. Va. 26554
1976	Hill & Griffith Company Cincinnati, Ohio 45204
1980	Home Insurance Company New York, N.Y. 10038
1980	The O. Hornel Company Pittsburgh, Pa. 15230
1968	The Homer Laughlin China Company Newell, W. Va. 26050
1973	Howell Industrial Clinic Atlanta, Ga. 30308
1937	Huntington Alloys, Inc. Huntington, W. Va. 25720
1978	Huntington Plating, Inc. Huntington, W. Va. 25704
1978	ICI Americas, Inc. Wilmington, Del. 19897
1978	ILCO, Inc. Leeds, Ala. 35094
1978	Imaging Systems Corporation Derry, Pa. 15627
1975	Industrial Gasket & Shim Company, Inc. Meadowlands, Pa. 15347
1947	Inland Steel Company Chicago, Ill. 60603
1947	International Business Machines Corporation Armonk, N.Y. 10504
1970	International Lead Zinc Research Organization New York, N.Y. 10017

Date Joined	Company
1980	Irvine Park Medical Clinic, Inc. Irvine, Calif. 92714
1936	Jenns-Manville Corporation Denver, Colo. 80217
1955	Kawecki Beryldo Industries, Inc. Reading, Pa. 19603
1974	Koop Glass, Inc. Pittsburgh, Pa. 15218
1942	Koppers Company, Inc. Monroeville, Pa. 15146
1974	Lenox Crystal, Inc. Mt. Pleasant, Pa. 15068
1978	M & T Chemicals, Inc. Ranney, N.J. 07065
1937	J.S. McCormick Company Pittsburgh, Pa. 15222
1976	Marathon Oil Company Findlay, Ohio 45840
1978	C. H. Masland & Sons Carlisle, Pa. 17013
1937	Metropolitan Life Insurance Company New York, N.Y. 10010
1936	Mine Safety Appliances Company Pittsburgh, Pa. 15225
1974	Mobay Chemical Corp. Pittsburgh, Pa. 15208
1978	Molded Fiber Glass Tray Company Lanesville, Pa. 16414
1980	Molded Materials Company, Division of Carlisle Corporation Ridgeway, Pa. 15853
1975	Monongahela Iron & Metal Company, Inc. Monongahela, Pa. 15061
1977	Motor Coils Manufacturing Company Braddock, Pa. 15104
1936	Motor Vehicle Manufacturers Assn. Detroit, Mich. 48101
1974	National Annealing Box Company Washington, Pa. 15301
1977	National Health Watch, Inc. Cleveland, Ohio 44132
1979	New Castle Refractories Company New Castle, Pa. 16113
1972	Organization Resources Counselors, Inc. Washington, D.C. 20006
1953	Owens-Corning Fiberglas Corporation Toledo, Ohio 43659
1937	Pennsylvania Glass Sand Corporation Berkeley Springs, W. Va. 26031
1978	Pennsylvania Power Company Shippingport, Pa. 15087
1972	Peoples Natural Gas Company Pittsburgh, Pa. 15222
1979	Phelps Dodge Brass Company Anniston, Ala. 36202
1980	Pittsburgh Corning Corporation Pittsburgh, Pa. 15208
1975	Pittsburgh & Lake Erie Railroad Pittsburgh, Pa. 15215
1970	Pneumafil Corporation Charlotte, N.C. 28216
1979	Port Authority of Allegheny County Pittsburgh, Pa. 15203
1938	Portland Cement Association Skokie, Ill. 60077

<u>Date Joined</u>	<u>Company</u>
1970	Potters Industries, Inc. Carlstadt, N.J. 07072
1937	PPG Industries, Inc. Pittsburgh, Pa. 15222
1979	P.O. Corporation Valley Forge, Pa. 19482
1976	RAD Services, Inc. Pittsburgh, Pa. 15235
1968	Raybestos-Mannattan, Inc. Trumbull, Conn. 06611
1976	The Refractories Institute Pittsburgh, Pa. 15212
1937	H.H. Robertson Company Pittsburgh, Pa. 15212
1976	Roux Laboratories, Inc. W. Jacksonville, Fla. 32217
1972	Safety First Industries, Inc. McKees Rocks, Pa. 15236
1973	Sager Glove Corporation Chicago, Ill. 60634
1937	St. Joe Minerals Corporation New York, N.Y. 10017
1977	Schuylkill Metals Corporation Baton Rouge, Louisiana 70807
1976	SCM Corporation New York, N.Y. 10017
1974	Sharon Steel Corporation Farrell, Pa. 16121
1972	Shell Oil Company Houston, Tex. 77210
1974	Shenanco, Inc. Pittsburgh, Pa. 15225
1977	Spartek, Inc. Canton, Ohio 44711
1975	The Standard Oil Company Cleveland, Ohio 44114
1976	Stellite Division, Cabot Corporation Rokomo, Ind. 46801
1966	Thermal Insulation Manufacturers Association, Inc. (TIMA) Mt. Kisco, N.Y. 10549
1978	Tile Council of America, Inc. Princeton, N.J. 08540
1970	Travelers Insurance Companies Hartford, Conn. 06115
1972	Tri-State Engineering Company Washington, Pa. 15301
1976	TV-VI, Inc. Saxonburg, Pa. 16056
1936	Union Carbide Corporation New York, N.Y. 10017
1979	United States Fidelity & Guaranty Company Baltimore, Md. 21202
1974	United States Gypsum Company Des Plaines, Ill. 60016
1980	United States Mineral Products Company Stanhope, N.J. 07874
1936	United States Potters Assn. East Liverpool, Ohio 43920
1980	United States Steel Corporation Pittsburgh, Pa. 15230
1938	Vesuvius Crucible Company Pittsburgh, Pa. 15213

<u>Date Joined</u>	<u>Company</u>
1977	Volkswagen of America, Inc. New Stanton, Pa. 15672
1976	WABCO Railway Products Group Pittsburgh, Pa. 15222
1975	Washington Mould, Machine & Foundry Company Washington, Pa. 15301
1974	Watson-Standard Company Pittsburgh, Pa. 15238
1977	Wenczel Tile Company Trenton, N.J. 08638
1962	Western Electric Company, Inc. New York, N.Y. 10038
1937	Westinghouse Electric Corporation Pittsburgh, Pa. 15222
1979	Whitacre-Greer Fireproofing Co. Waynesburg, Ohio 44688
1979	Wickwire Systems Company, Inc. Sewickley, Pa. 15143
1976	Williams & Company, Inc. Pittsburgh, Pa. 15233
BRAZIL	
1958	Companhia Siderurgica Nacional Biblioteca Volta Redonda, Estado do Rio, Brazil
CANADA	
1978	Alberta Workers' Health, Safety & Compensation 9620 106th St. Edmonton, Alberta, Canada T5K 2J6
1979	Reichhold Limited 1919 Wilson Ave. Weston, Ontario, Canada M9M 1B1
SWITZERLAND	
1958	Ciba-Geigy AG CH-4002 Basel, Switzerland
VENEZUELA	
1962	Lagoven, S.A. Apartado 889 Caracas, Venezuela 1010-A

NEW MEMBERS 1980

Badische Corporation
BMI, Inc. - Refractory Division
Cabot Corporation
Centre Foundry & Machine Company
Cooper Industries, Inc.
D'Appolonia Consulting Engineers, Inc.
Dadler Taylor Refractories Corporation
Home Insurance Company
The O. Hommel Company
Irvine Park Medical Clinic, Inc.
Molded Materials Company
Pittsburgh Corning Corporation
United States Mineral Products
United States Steel Corporation

Attached lists of membership from 1963 through 1980

1963 list taken from Meeting of Members, October 23, 1963

1964 through 1970 taken from Annual Reports

1971 taken from Board of Trustees Meetings (minutebook)

1972 taken from Board of Trustees Meetings "

1973 through 1979 taken from Annual Reports

1980 taken from Acme

Company	Joined
Abasive Grain Assn.	1917
Leg. Co. Sanitary Auth.	1971
Allegheny Ludlum Steel Corp.	1981
Alliance of American Insurers (formerly AIAA)	1949
Applied Chemical Corp.	1951
Be Coal Co. (Reinst.)	1982
Aluminum Co. of America	1951
AX (formerly American Metal Climax)	1981
American Ind. Hyg. Assn. (Reciprocal) *	1973
American Petroleum Inst.	1967
Americhem Inc.	1971
Alcoa Co., Aluminum Div.	1979
Adische Corporation	1980
Arkwith Machinery Co.	1983
The Boeing Company	1959
Org-Warner Chemicals	1977
Brown Board Control Systems	1981
Cash Wellman, Inc.	1944
Halo China, Inc.	1981
Halo Color Corp.	1977
United Carbide Prod. Assn.	1971
Centre Foundry & Machine Co.	1981
a-Geigy AG	1981
Columbia Nitrogen Corp.	1971
Consolidated Edison Co. of N.Y., Inc.	1973
Consolidated Natural Gas Serv. Co.	1971
Coper Industries, Inc.	1980
Contraves, Div. Contraves Goerz Corporation	1981
Donald Siamrock Corp.	1982

Company	Joined
Dick Corp.	1976
Domtar, Inc.	1981
Dow Chemical U.S.A.	1939
Drakenfeld Colors	
Ciba-Geigy Corporation	1937
E.I. duPont de Nemours & Co.	1936
Duraloy Blaw-Knox, Inc.	1983
Engineering & Safety Dept., AIA	1979
Exxon Corp.	1964
Joseph B. Fay Co.	1979
Findlay Refractories Company	1981
Postoria Glass Co.	1974
The Franklin Glass Co.	1976
Furnco Construction Corporation	1982
Fusion Ceramics, Inc.	1979
Gailey, Inc.	1981
General Accident Group	1979
General Electric Co.	1947
General Motors Corp.	1942
Geo-Con, Inc.	1983
Georgia Kaolin Research	1954
Grinding Wheel Institute	1937
Gulf Oil Corp.	1950
Halcon R & D Corporation	1976
The Hall China Company	1936
Hallmark Cards, Inc.	1981
Hankison Corp.	1977
Harbison-Walker Refractories	1976
Helmick Corp.	1979
The Hill & Griffin Company	1976
The O. Hommel Company	1980

Company	Joined
Well Industrial Clinic	1973
Antington Alloys, Inc.	1937
HM Corp.	1947
CI Americas, Inc.	1978
Wine Park Medical Clinic, Inc.	1980
Ans-Manville Corp.	1936
en All of America Corp.	1983
pp Glass, Inc.	1974
oppers Co., Inc.	1942
GOVEN, S.A.	1962
e Homer Laughlin China Company	1968
enox Crystal, Inc.	1974
I & T Chemicals, Inc.	1978
. H. Masland & Sons	1978
S. McCormick Co.	1937
etropolitan Life Insurance Co.	1937
etsch Refractories, Inc.	1981
ne Safety Appliances Co.	1936
nerals & Chemicals Div.	
Angelhard Corporation	1973
stay Chemical Corp.	1974
ional Annealing Box Co.	1974
Castle Refractories Co.	1979
ens-Corning Fiberglas Corp.	1953
nan, Inc.	1978
na. Glass Sand Corp.	1937
nsylvania Power Co.	1978
les Natural Gas Co. *	1972
sburgh Corning Corporation	1980
sburgh & Lake Erie Railroad	1975
sburgh Railcar, Inc.	1982
land Cement Assn.	1938
ns Industries, Inc.	1970

Company	Joined
FPS Industries, Inc.	1937
The Refractories Institute	1976
H. H. Robertson Co.	1937
Safety First Industries, Inc.	1972
St. Joe Minerals Corp.	1937
Sauereisen Cements Co.	1983
Schneider, Inc.	1981
Schuylkill Metals Corp.	1977
The Standard Oil Co.	1975
State Electric Supply Co.	1982
Thermal Insulation Mfrs. Assn., Inc. (TIMA)	1966
Tile Council of America, Inc.	1978
TRW Bearings Division	1981
U-VI Incorporated	1976
U.S. Fidelity & Guaranty Co.	1979
United States Mineral Products Co. (Reinstated)	1980
The United States Potters Assn.	1936
United Technologies Corporation	1982
Universal-Cyclops Div., Cyclops Corp.	1983
Vesuvius Crucible Co.	1938
Vollswager of America, Inc.	1977
WABCO Railway Products Group	1976
Watson-Standard Co.	1974
Wenatchee Tile Co.	1977
Western Electric Co., Inc.	1962
Westinghouse Electric Corp.	1937
The Whitacre-Greer Fireproofing Co.	1979
Wickwire Systems Co., Inc.	1979

INF MEMBERSHIP LISTS

1981 - From Acme dated Sept. 17, 1981

1980 - Complete (Annual Report)

1979 - " "

1978 - " "

1977 - " "

1976 - " "

1975 - " "

1974 - " "

1973 - " "

1972 - New members only (Minutes Board of Trustees Meetings, Feb. 8, May 9, Oct. 9)

1971 - New members only (Minutes Board of Trustees Meetings, Mar. 9 and Oct. 11)

1970 - Complete (Annual Report)

1969 - " "

1968 - " "

1967 - " "

1966 - " "

1965 - " "

1964 - " "

1963 - Members represented by proxies, new members, members resigned.
(Meeting of Members, October 23, 1963)

1963 - New members only (Annual Report)

1961 - " "

1960 - No record

INF MEMBERSHIP LISTS (Contd.)

- 1959 - Complete (Annual Report)
- 1958 - No record
- 1957 - New members only (Transactions Bulletin No. 31, 22nd Annual Meeting, October 30-31, 1957)
- 1956 - New members only (Transactions Bulletin No. 30, 21st Annual Meeting, November 14-15, 1956)
- 1955 - New members only (Transactions Bulletin No. 29, 20th Annual Meeting, November 16-17, 1955)
- 1954 - New members only (Transactions Bulletin No. 28, 19th Annual Meeting, November 17-18, 1954)
- 1953 - New members only (Transactions Bulletin No. 26, 18th Annual Meeting, November 19, 1953)
- 1952 - No record
- 1951 - New members only (Transactions Bulletin No. 19, 16th Annual Meeting, November 15, 1951)
- 1950 - New members only (Transactions Bulletin No. 15, 15th Annual Meeting, November 16, 1950)
- 1949 - New members only (Transactions Bulletin No. 11, 14th Annual Meeting, November 17, 1949)
- 1948 - New members only (Transactions Bulletin No. 10, 13th Annual Meeting, November 18, 1948)
- 1947 - New members only (Transactions Bulletin No. 9, 12th Annual Meeting, November 20, 1947)
- 1946 - Complete (Transactions Bulletin No. 8, 11th Annual Meeting, November 7, 1946)
- 1945 - Complete (Proceedings, 10th Annual Meeting, November 14-15, 1945, Part IV)
- 1944 - Complete (Proceedings, 9th Annual Meeting, November 15-16, 1944, Part IV)
- 1943 - Complete (Proceedings, 8th Annual Meeting, November 10-11, 1943)
- 1942 - New members only (Proceedings, 7th Annual Meeting, November 10-11, 1942)

IHF MEMBERSHIP LISTS (Contd.)

1941 - New members only (Proceedings, 6th Annual Meeting, November 12-13, 1941)

1940 - New members only (Proceedings, 5th Annual Meeting, November 12-13, 1940)

1939 - No record

1938 - No record

1937 - Complete (Proceedings of Special Meeting, November 30, 1937)

Company

Joined

1987

Alberta Workers' Health, Safety &

Compensation

1978

Allegheny International

1986

Alleg. Co. Sanitary Auth.

1986

Alfred Chemical Corp.

1986

Aluminum Co. of America

1986

AMAX (formerly American Metal Climax)

1987

American Can Co.

1987

American Ind. Hyg. Assn. (Reciprocal)

1978

The American Mining Congress

1987

American Petroleum Inst.

1987

Amersham Inc.

1986

Anacosta Co. Aluminum Div.

1979

Argonaut Insurance Co.

1976

ASARCO, Inc.

1986

Badische Corporation

1986

BMI, Inc. - Refractory Division

1986

The Boeing Company

1959

Borg-Warner Chemicals

1987

Erick Institute of America

1986

Brush Wellman, Inc.

1986

Buffalo Office Corp.

1986

Cabot Corporation

1986

Company

Joined

1987

Alberta Workers' Health, Safety &

Compensation

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Allegheny International

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Alleg. Co. Sanitary Auth.

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The American Mining Congress

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Anacosta Co. Aluminum Div.

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Argonaut Insurance Co.

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ASARCO, Inc.

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Badische Corporation

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BMI, Inc. - Refractory Division

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The Boeing Company

1959

Borg-Warner Chemicals

1987

Erick Institute of America

1986

Brush Wellman, Inc.

1986

Buffalo Office Corp.

1986

Cabot Corporation

1986

Company

Joined

1987

Alberta Workers'

Company	Joined
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The Homer Laughlin China Company	1968
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Lenox Crystal, Inc.	1974
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M & T Chemicals, Inc.	1978
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J. S. McCormick Co.	1937
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Matrathon Oil Co.	1976
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C. H. Masland & Sons	1978
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Metropolitan Life Insurance Co.	1937
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Metach Refractories, Inc.	1981
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Mue Safety Appliances Co.	1936
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Mobay Chemical Corp.	1974
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Molded Fiber Glass Tray Co.	1978
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Molded Materials Company	1980
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(Div. of Carlisle Corporation)	
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Motor Coils Manufacturing Co.	1977
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National Annealing Box Co.	1974
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New Castle Refractories Co.	1979
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Organization Resources Counselors, Inc.	1972
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Owens-Corning Fiberglas Corp.	1953
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Penn. Glass Sand Corp.	1937
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Pennsylvania Power Co.	1978
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Peoples Natural Gas Co. &	1972
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Minerals & Chemicals Div.	
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Fabro Corporation	1973
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Pittsburgh Corning Corporation	1980
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Pittsburgh & Lake Erie Railroad	1975
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Portland Cement Assn.	1938
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Potters Industries, Inc.	1970
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PFG Industries, Inc.	1937
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P. G. Corporation	1979
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The Refractories Institute	1976
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Reichold Ltd.	1979
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H. H. Robertson Co.	1937
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Safety First Industries, Inc.	1972
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St. Joe Minerals Corp.	1937
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Schneller, Inc.	1981
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Schenck Metall Metals Corp.	1977
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Sharon Steel Corp.	1974
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Shenango Incorporated	1974
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The Standard Oil Co.	1975
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Thermal Insulation Mfrs. Assn., Inc.	1966
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Company	Joined
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Tri-State Engineering Co.	1972
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TRW Bearings Division	1981
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II-VI Incorporated	1976
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Union Carbide Corp.	1936
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U.S. Fidelity & Guaranty Co.	1979
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United States Gypsum Co.	1974
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United States Mineral Products Co.	1980
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(Reinstated)	
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The United States Pottery Assn.	1936
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United States Steel Corporation	1980
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Vesuvius Crucible Co.	1938
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Volkswagen of America, Inc.	1977
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WABCO Railway Products Group	1976
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Washington Mould Company	1975
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Watson-Standard Co.	1974
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Wenzel Tile Co.	1977
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Western Electric Co., Inc.	1962
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Westinghouse Electric Corp.	1937
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The Whitacre-Greer Fireproofing Co.	1979
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Wickwire Systems Co., Inc.	1979
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Williams & Co., Inc.	1976
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